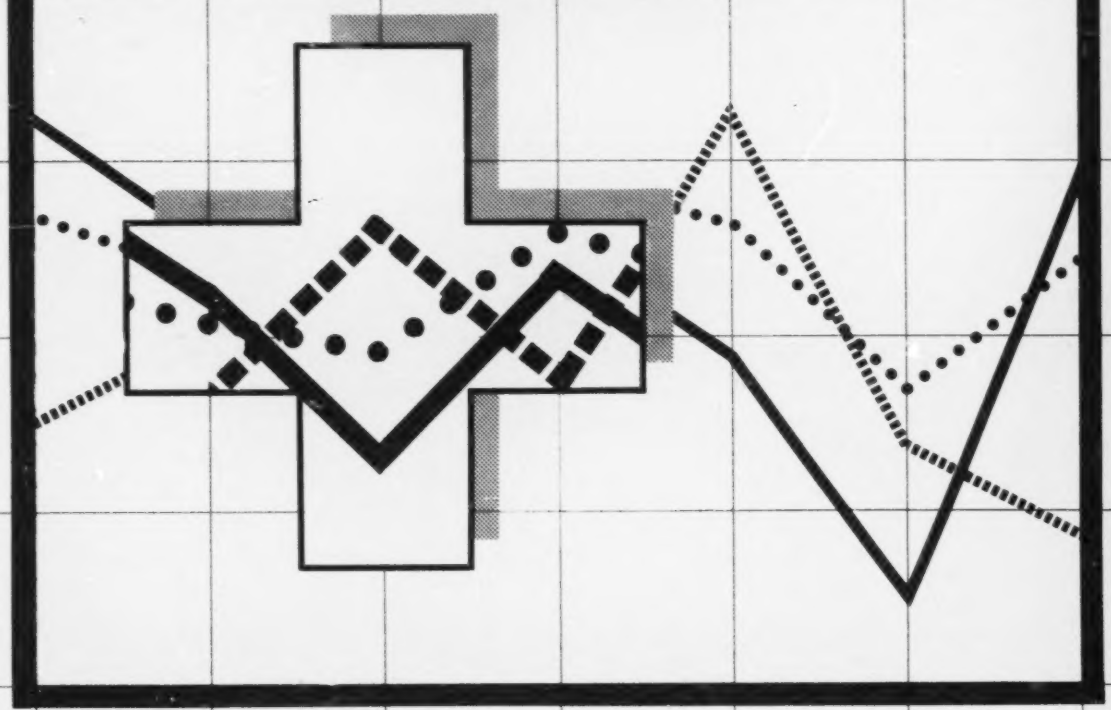
1/3/83 S2880-1(u) A

# 1981 Iowa Accident Facts



Iowa Department of Transportation

BEST AVAILABLE COPY

# Foreword

The format of the vehicle pages in the 1981 report emphasizes the number of **accidents** by vehicle type.

The 1981 summary contains several new pieces of information: expanded alcohol information, (including trend information, time of day, day of week, and detailed statistics on the driver, vehicle and environment for alcohol-related accidents); collisions by vehicle type; and accident information for each county by road system. In addition, the individual vehicle pages include seat belt usage information (based on accident data).

Several items should be noted. Accident information concerning the Driver, Machine and Environment for each vehicle type is contained on facing pages. Percentages are based on known information; unknown cases are also noted.

Starting in 1979 all Iowa fatality figures include all persons who died as a result of a traffic accident on public roads within 30 days of the accident. Previous traffic fatality figures included all persons who died within one year of the accident. The change was made to conform to nationwide standards for reporting highway fatalities.

Iowa Department
of Transportation

Office of Safety Programs
Lucas Building
Des Moines, Iowa 50319
(515) 281-5012

November 1982

## Acknowledgement

The Iowa Department of Transportation wishes to express appreciation to all law enforcement agencies and officers for their work in accident investigation which made this report possible. All information concerning Iowa traffic accidents was taken from report forms provided by investigating officers and drivers involved in accidents.

We hope this information will be of value in analyzing the causes of traffic accidents in Iowa and that it emphasizes the need for concerned, well-prepared drivers and a safe driving environment.

Prepared by
Office of Safety Programs

# Contents


Page

I. Foreward ..... I

II. Glossary ..... iv

III. Summary:

a. A look at Iowa ..... 1
b. Iowa trends (1970-81) ..... 2
c. National trends (1970-81) ..... 3
d. Vehicle miles/fatalities (1970-81) ..... 4
e. Time: fatal/all accidents ..... 5
f. Drivers/fatalities: age/sex ..... 6
g. Drinking and driving ..... 8
h. Holiday fatalities (1962-81) ..... 9
i. Accidents involving fatalities: driver, vehicle & environment ..... 10
j. Accidents involving alcohol: driver, vehicle & environment ..... 12
k. Pedestrians ..... 14
l. Counties: general ..... 15
m. Counties: accidents by road system ..... 19
n. Collision accidents: types of vehicles involved ..... 22

IV. Vehicles Involved in Accidents:

a. Overall summary ..... 23
b. By type:

Automobiles
- Automobiles ..... 26
- Automobiles/pickups with trailers or campers ..... 28

Buses
- Buses ..... 30
- School buses ..... 32

Cycles
- Bicycles ..... 34
- Mopeds ..... 36
- Motorcycles ..... 38

Farm Vehicles ..... 40

Motor Homes ..... 42

Recreational Vehicles ..... 44

Trains ..... 46

Trucks
- Panels/vans/pickups ..... 48
- Straight trucks ..... 50
- Tow/maintenance/construction vehicles ..... 52
- Truck tractors ..... 54
- Truck tractors with trailers ..... 56

# Glossary

**Traffic Accident:** Before July 1, 1981, Iowa law required motorists to report any accident which involved one or more vehicles, and resulted in death, personal injury or property damage of at least $250. The property damage limit was raised to "at least $500.00 on July 1, 1981". (The information in this report is based on accidents which occurred on public roads.)

**Fatal accident:** Accident in which one or more persons are killed.

**Personal injury accident:** Accident in which no one is killed, but one or more persons are injured.

**Property damage accident:** Accident in which no one is killed or injured, but there is property damage of at least $500 or more.

**Fatality:** Person killed as a result of a traffic accident.

**Alcohol-related:** An accident where either a driver, bicyclist, or pedestrian is listed on the motor vehicle accident report as drinking prior to the accident.

**Vehicle miles:** Iowa vehicle-mile figures are the estimated total number of miles traveled on Iowa primary and secondary highways, urban and rural roads, and streets by all vehicles during a given period.

**Fatality rate:** Number of fatalities per 100 million vehicle miles.

**Accident rate:** Number of accidents per 100 million vehicle miles, unless otherwise stated.

**SUMMARY**
**General**

# 1981: A look at Iowa

| Accidents by month | | Fatal Accidents by month | Fatalities |
|---|---|---|---|
| 68,263 | | 529 | 612 |
| 6,910 | Dec. | 36 | 46 |
| 5,732 | Nov. | 34 | 42 |
| 5,946 | Oct. | 55 | 59 |
| 5,178 | Sept. | 54 | 64 |
| 5,546 | Aug. | 62 | 73 |
| 5,277 | July | 48 | 54 |
| 5,926 | June | 45 | 49 |
| 6,072 | May | 54 | 64 |
| 5,177 | April | 36 | 41 |
| 4,689 | March | 36 | 40 |
| 6,343 | Feb. | 33 | 39 |
| 5,467 | Jan. | 36 | 41 |

## In Iowa there was...

1 accident every 7.7 minutes

1 driver out of every 22 involved in an accident

1.7 lives lost per day because of traffic accidents. (A total of 612 lives were lost in 1981.)

78.8 persons injured per day because of traffic accidents. (A total of 28,776 persons were injured in 1981.)

In Iowa, motor vehicle accidents decreased 12.3 percent in 1981 from the 77,800 accidents recorded in 1980. Fatalities decreased 2.2 percent in 1981 from 626 fatalities reported in 1980.

**Nationally there were:**

18,000,000 motor vehicle accidents

43,980 fatal accidents

49,268 fatalities

4,543,000 persons injured

Nationally, motor vehicle accidents increased 0.6 percent in 1981, compared to the 17,900,000 accidents in 1980. Fatalities decreased 3.6 percent in 1981 from the 51,091 fatalities reported in 1980.

# SUMMARY
## Iowa Trends 1969-1980

| Year | All Acc. | Fatalities | Persons Injured | Fatal Acc. | Injury Acc. | Vehicle Miles (Million) | Fatality[2] Rate | Fatal[2] Acc. Rate | All[2] Acc. Rate | Licensed Drivers | Motor Vehicle Registrations |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1970 | 87,808 | 912 | 33,101 | 752 | 22,339 | 16,053 | 5.68 | 4.68 | 547.0 | 1,678,262 | 1,839,530 |
| 1971 | 87,100 | 828 | 31,599 | 681 | 21,411 | 16,582 | 4.99 | 4.11 | 525.3 | 1,704,137 | 1,916,850 |
| 1972 | 91,918 | 875 | 35,484 | 722 | 23,814 | 17,127 | 5.11 | 4.22 | 536.7 | 1,752,595 | 2,012,245 |
| 1973 | 96,620 | 813 | 35,059 | 682 | 24,683 | 17,691 | 4.60 | 3.86 | 546.2 | 1,787,169 | 2,095,330 |
| 1974 | 91,117 | 685 | 31,741 | 583 | 22,851 | 17,250 | 3.97 | 3.38 | 528.2 | 1,846,870 | 2,178,530 |
| 1975 | 94,825 | 674 | 32,802 | 578 | 23,082 | 17,853 | 3.78 | 3.24 | 531.1 | 1,865,754 | 2,250,417 |
| 1976[1] | 98,000 | 785 | 34,096 | 663 | 24,218 | 18,441 | 4.26 | 3.60 | 531.4 | 1,959,150 | 2,300,721 |
| 1977 | 87,771 | 640 | 32,289 | 561 | 22,358 | 19,028 | 3.36 | 2.95 | 461.3 | 2,085,647 | 2,356,327 |
| 1978 | 91,213 | 650 | 31,631 | 563 | 21,651 | 19,467 | 3.34 | 2.89 | 468.6 | 2,398,656 | 2,474,790[3,4] |
| 1979 | 86,969 | 655[5] | 29,972 | 566[5] | 20,727 | 18,959 | 3.45 | 2.99 | 458.7 | 2,419,501 | 2,540,547[3,4] |
| 1980 | 77,800 | 626[5] | 29,100 | 541[5] | 20,280 | 18,305[5] | 3.42[5] | 2.96[5] | 425.0[5] | 2,408,793 | 2,554,379[3,4] |
| 1981 | 68,263 | 612[5] | 28,776 | 529[5] | 19,945 | 18,715 | 3.27 | 2.83 | 364.8 | 2,472,614 | 2,592,604[3,4] |

1 All accident figures for 1976 are estimated except for figures on fatal accidents.
2 Per 100 million vehicle miles traveled.
3 Estimated by DOT Office of Safety Programs.
4 The motor vehicle registration figure excludes trailers, travel trailers and mobile homes. Vehicles registered to Iowa non-residents are included.
5 Beginning with 1979, figures for fatalities and fatal accidents are based on persons who died within 30 days of the traffic accident. Previous years' totals included persons who died within one year of the accident.
6 Updated.

| Year | All[1] Acc. | Fatalities | Persons[2] Injured | Fatal Acc. | Vehicle[3] Miles (Billion) | Fatality[4] Rate | Fatal[4] Acc. Rate | All[4,5] Acc. Rate | Licensed[3,5] Drivers | Motor Vehicle[3,5] Registrations |
|---|---|---|---|---|---|---|---|---|---|---|
| 1970 | 16,400,000[6] | 52,627 | 2,961,000 | NA | 1,110 | 4.74 | NA | 1,477.5 | 111,542,787 | 111,242,295 |
| 1971 | 17,000,000[6] | 52,542 | 4,044,000 | NA | 1,179 | 4.46 | NA | 1,441.9 | 114,425,900 | 116,330,037 |
| 1972 | 16,600,000[6] | 54,589 | 3,761,000 | NA | 1,260 | 4.33 | NA | 1,317.5 | 118,414,474 | 122,556,550 |
| 1973 | 15,600,000[6] | 54,052 | 2,960,000 | NA | 1,313 | 4.12 | NA | 1,188.1 | 121,545,736 | 130,024,945 |
| 1974 | 15,600,000 | 45,196 | 4,075,000 | NA | 1,281 | 3.53 | NA | 1,217.8 | 125,426,582 | 134,899,955 |
| 1975 | 16,500,000 | 44,525 | 4,225,000 | 39,161 | 1,328 | 3.35 | 2.95 | 1,242.5 | 129,790,666 | 137,912,779 |
| 1976 | 16,800,000 | 45,523 | 4,107,000 | 39,747 | 1,402[5] | 3.25[5] | 2.84[5] | 1,198.3 | 134,035,641 | 143,476,236 |
| 1977 | 17,600,000 | 47,878 | 4,392,000 | 42,210[5] | 1,467[5] | 3.26 | 2.88[5] | 1,199.7 | 138,120,893 | 146,973,718 |
| 1978 | 18,300,000 | 50,331 | 3,827,000 | 44,433 | 1,545[5] | 3.26[5] | 2.88[5] | 1,184.5 | 140,843,907 | 153,282,476 |
| 1979 | 18,100,000 | 51,093[5] | 4,248,000[5] | 45,223[5] | 1,529[5] | 3.34 | 2.96 | 1,184.4 | 143,283,995 | 157,291,431 |
| 1980 | 17,900,000 | 51,091[5] | 3,694,000[5] | 45,284[5] | 1,528[5] | 3.34[5] | 2.96[5] | 1,171.5 | 145,295,036 | 161,490,159 |
| 1981 | 18,000,000 | 49,268 | 4,543,000 | 43,980 | 1,560[6] | 3.16 | 2.82 | 1,153.8 | 147,968,000[6] | 165,732,000[6] |

Figures obtained from U.S. Department of Transportation, National Highway Traffic Safety Administration, unless otherwise noted. All rates calculated by the Office of Safety Programs.

1 Figures from National Safety Council.
2 National Health Interview System, National Center for Health Statistics.
3 Federal Highway Administration, Highway Statistical Division.
4 Per 100 million vehicle miles traveled.
5 Updated/revised.
6 Estimated.

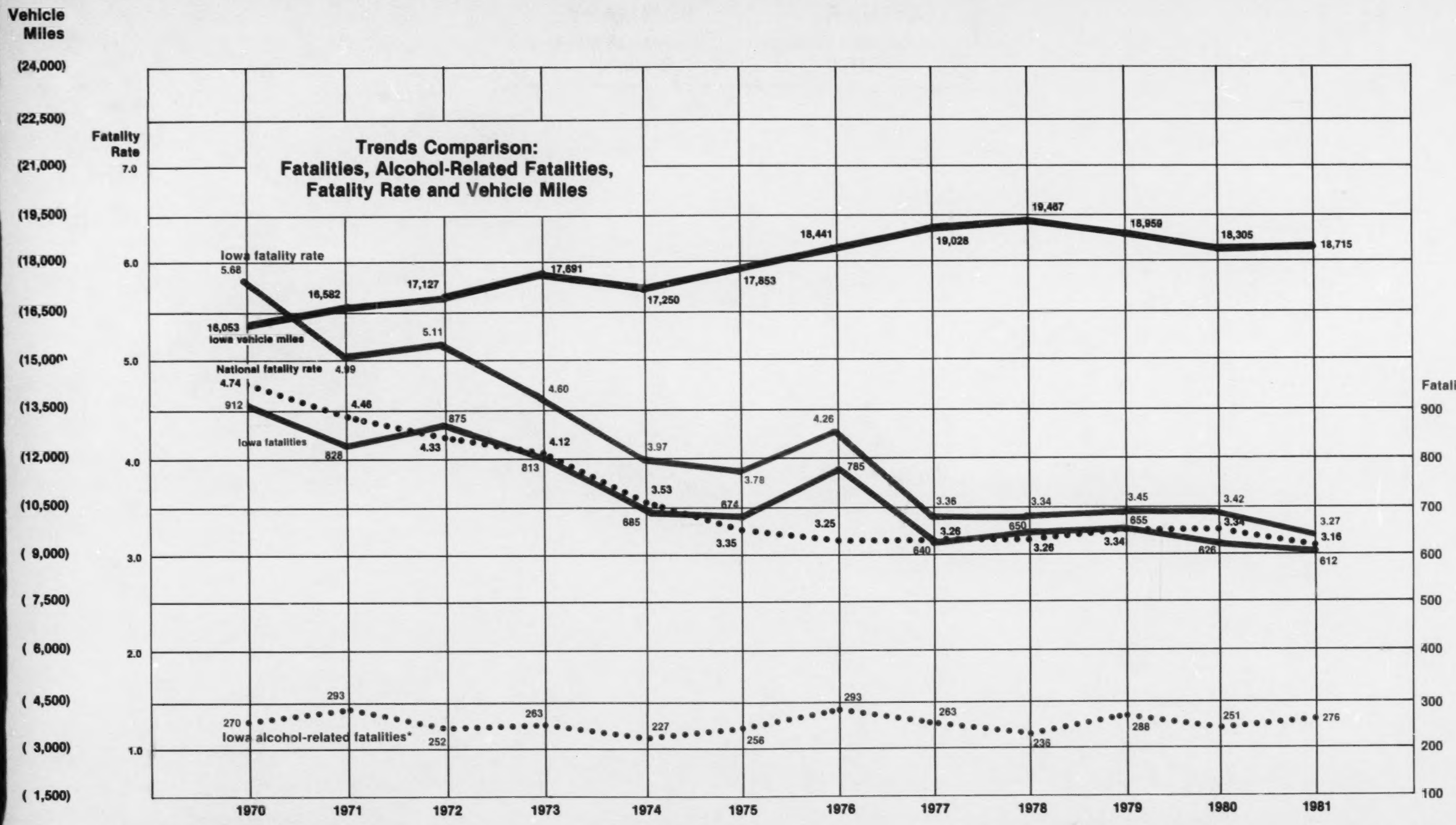


**SUMMARY**
National Trends
1969-1980

## SUMMARY

**Vehicle Miles/ Fatalities**

## Trends Comparison: Fatalities, Alcohol-Related Fatalities, Fatality Rate and Vehicle Miles




**Vehicle miles**
**Iowa fatalities**
**Iowa fatality rate**
**National fatality rate**
**Iowa alcohol-related fatalities**

* Alcohol-related means officer indicated driver, operator or pedestrian had been drinking.

## SUMMARY

**Time: Fatal/All Accidents**

# SUMMARY

## Drivers/Fatalities: Age/Sex

| Age | Licensed Drivers* | Drivers Involved in Accidents | Drivers Involved in Fatal Acc. | Acc. Rate**† | Fatal Acc. Rate**† | Persons Killed*** |
|---|---|---|---|---|---|---|
| 15 & younger | 49,901 | 1,064 | 14 | 213.2 | 2.8 | 56 |
| 16 | 44,053 | 4,786 | 22 | 1,086.4 | 5.0 | 14 |
| 17 | 50,650 | 6,023 | 31 | 1,189.1 | 6.1 | 23 |
| 18 | 54,508 | 6,293 | 41 | 1,154.5 | 7.5 | 43 |
| 19 | 59,393 | 5,538 | 38 | 932.4 | 6.4 | 31 |
| 20-24 | 325,617 | 20,597 | 152 | 632.6 | 4.6 | 122 |
| 25-34 | 623,856 | 24,073 | 199 | 385.9 | 3.1 | 123 |
| 35-44 | 373,439 | 12,038 | 96 | 322.4 | 2.5 | 46 |
| 45-54 | 290,008 | 9,010 | 63 | 310.7 | 2.1 | 49 |
| 55-64 | 275,376 | 7,816 | 62 | 283.8 | 2.2 | 38 |
| 65-74 | 203,283 | 5,002 | 41 | 246.1 | 2.0 | 38 |
| 75 & older | 122,131 | 2,780 | 19 | 227.6 | 1.6 | 29 |
| Total (age known) | 2,472,215 | 105,020 | 778 | 424.8 | 3.1 | 612 |
| Age unknown | 399 | 5,833 | 7 | | | |
| GRAND TOTAL | 2,472,614 | 110,853 | 785 | 448.3 | 3.2 | 612 |

| Sex | Licensed Drivers* | Drivers Involved in Accidents | Drivers Involved in Fatal Acc. | Acc. Rate**† | Fatal Acc. Rate**† | Persons Killed |
|---|---|---|---|---|---|---|
| Male | 1,286,784 | 72,499 | 638 | 563.4 | 4.9 | 431 |
| Female | 1,185,830 | 34,337 | 140 | 289.6 | 1.2 | 181 |
| Total (sex known) | 2,472,614 | 106,836 | 778 | 432.1 | 3.1 | 612 |
| Sex unknown | 0 | 4,017 | 7 | | | |
| GRAND TOTAL | 2,472,614 | 110,853 | 785 | 448.3 | 3.2 | 612 |

*Includes instruction permits and school permits (permits to drive to and from school)

**Accidents/fatal accidents per 10,000 licensed drivers

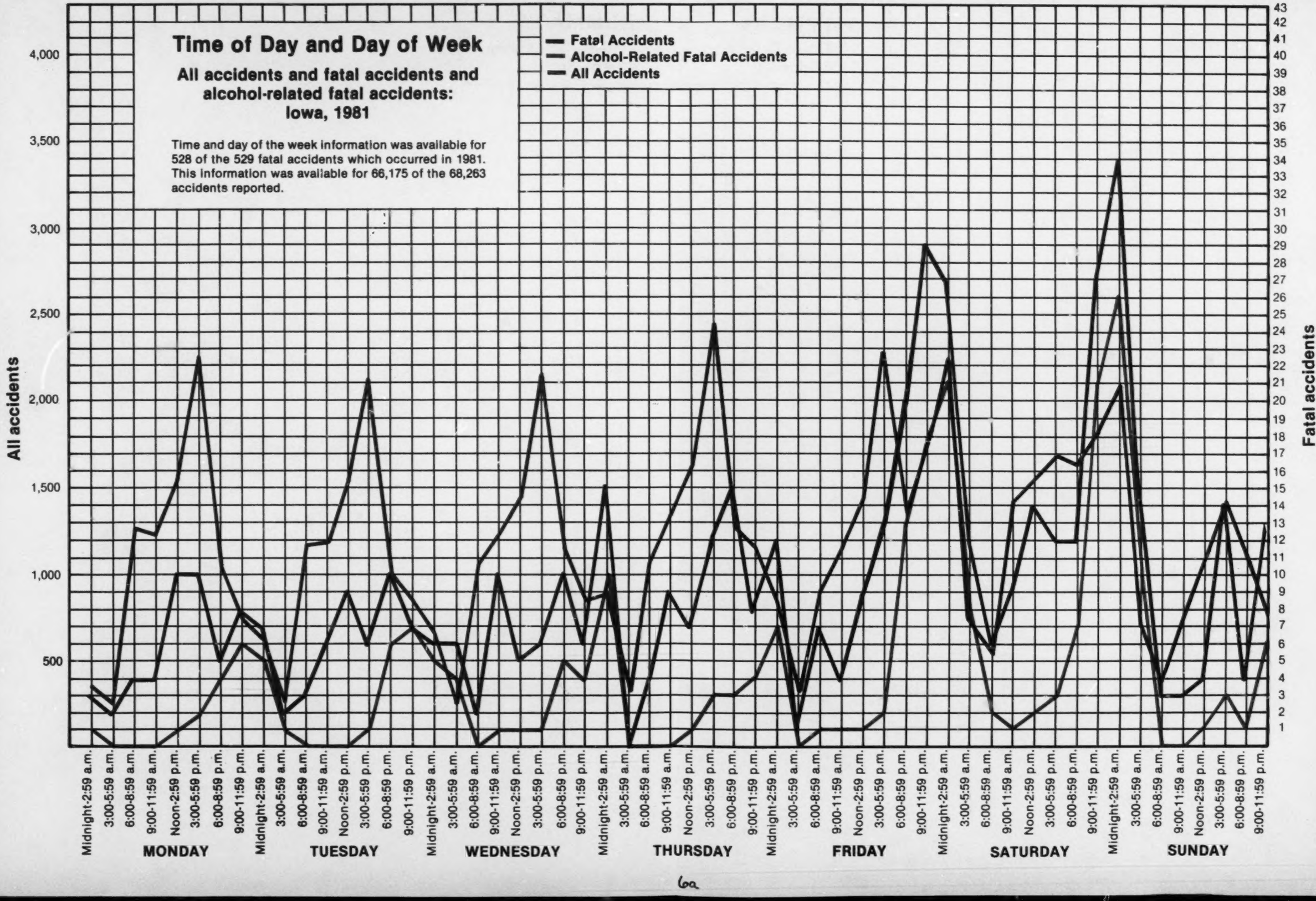
***Of persons killed, 18 were age 4 or under, 14 were age 5-9, and 13 were age 10-14.

† Accident rates can be converted to percentage figures by moving the decimal two spaces to the left. For example – for age 17 the accident rate is 1,189.1 per 10,000 licensed drivers. As a percentage (per 100 licensed drivers), the accident rate is 11.89. This means 12 percent of all 18-year-olds licensed in Iowa were involved in accidents during 1980.

# Time of Day and Day of Week

## All accidents and fatal accidents and alcohol-related fatal accidents: Iowa, 1981

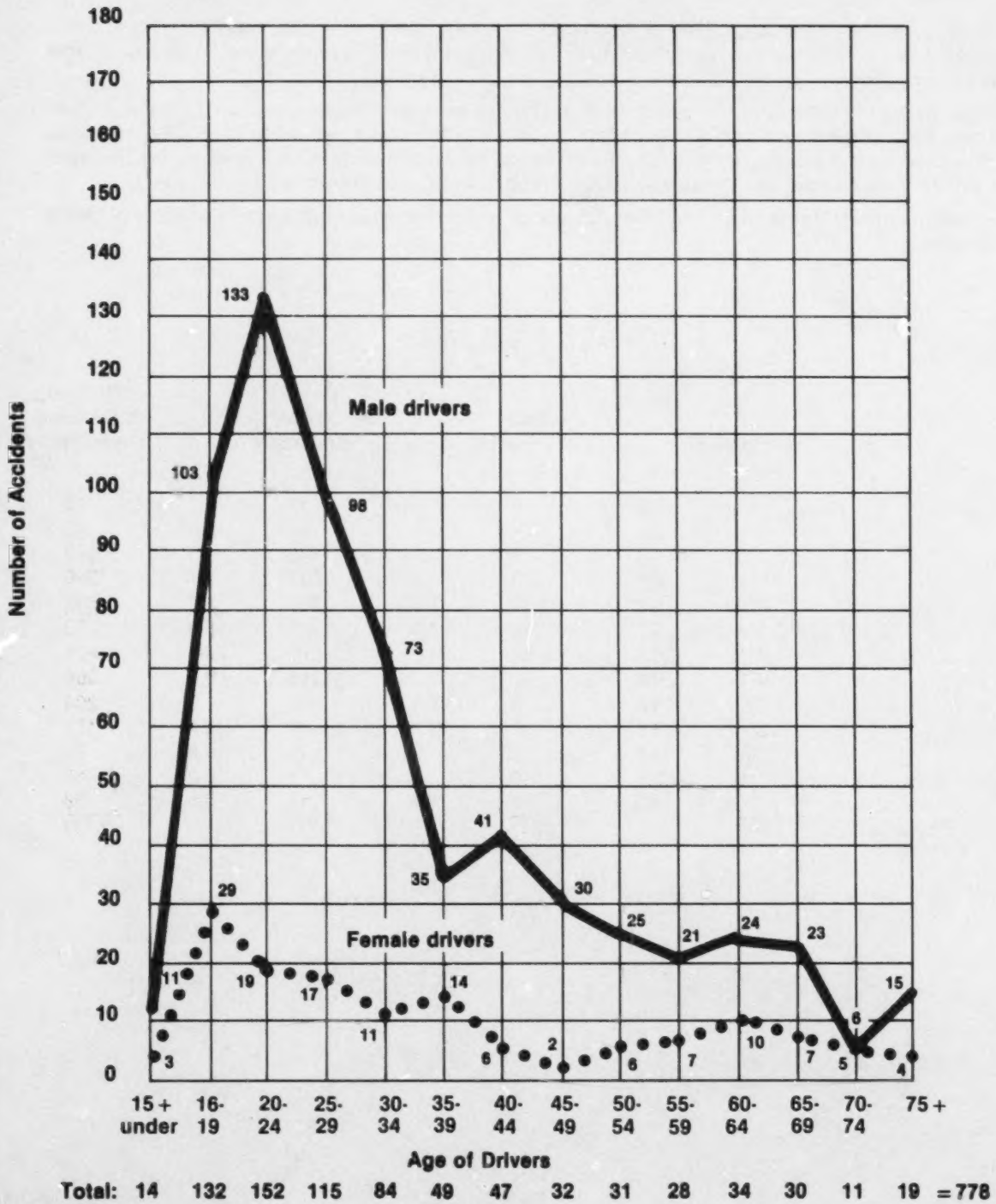
Time and day of the week information was available for 528 of the 529 fatal accidents which occurred in 1981. This information was available for 66,175 of the 68,263 accidents reported.



## SUMMARY
**Driver: Age/Sex**

**1981 Fatal Accidents**

| Drivers: | | |
|---|---|---|
| Male | 638 | 81.3% |
| Female | 140 | 17.8% |
| Sex unknown | 7 | 0.9% |
| Total | 785 | 100.0% |



# SUMMARY
## Drinking/Driving

During 1981, 44.6 percent of the fatal accidents and 45.1 percent of the fatalities were alcohol-related. Alcohol involvement is more apt to occur, and more likely to be reported, in fatal accidents than in non-fatal accidents.

In Iowa in 1981 drivers involved in fatal accidents were not required by law to submit to an alcohol test. Testing for alcohol in both fatal and all accidents was based on "probable cause," as determined by the investigating officer. Care should be used in comparing the yearly percentages of alcohol-related fatal accidents due to fluctuations in the number of reports received.

Iowa alcohol-related accident figures should not be compared to states where an alcohol test is mandatory.

### Age of Drinking Drivers

| | All Accidents | | Fatal Accidents | | Injury Accidents | | Property Damage Accidents | |
|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % |
| 15 & younger | 25 | 0.3 | 2 | 0.8 | 11 | 0.3 | 12 | 0.3 |
| 16 | 175 | 2.4 | 2 | 0.8 | 81 | 2.5 | 92 | 2.5 |
| 17 | 313 | 4.3 | 9 | 3.7 | 155 | 4.8 | 149 | 4.0 |
| 18 | 493 | 6.8 | 20 | 8.3 | 233 | 7.1 | 240 | 6.5 |
| 19 | 623 | 8.6 | 17 | 7.1 | 273 | 8.4 | 333 | 9.0 |
| 20-24 | 2,141 | 29.7 | 58 | 24.1 | 1,027 | 31.5 | 1,056 | 28.5 |
| 25-34 | 1,915 | 26.6 | 82 | 34.0 | 896 | 27.5 | 937 | 25.3 |
| 35-44 | 679 | 9.4 | 27 | 11.2 | 266 | 8.2 | 386 | 10.4 |
| 45-54 | 393 | 5.5 | 8 | 3.3 | 181 | 5.5 | 204 | 5.5 |
| 55-64 | 256 | 3.6 | 9 | 3.7 | 90 | 2.8 | 157 | 4.2 |
| 65-74 | 104 | 1.4 | 4 | 1.7 | 28 | 0.9 | 72 | 1.9 |
| 75 & older | 19 | 0.3 | 0 | -- | 6 | 0.2 | 13 | 0.4 |
| Not stated | 75 | 1.0 | 3 | 1.2 | 16 | 0.5 | 56 | 1.5 |
| Total no. of drivers | 7,211 | | 241 | | 3,263 | | 3,707 | |

# SUMMARY
## Holiday Fatalities 1962-1981

### Holiday Traffic Fatalities Iowa, 1962-81

In 1981, for the holidays described in the table below, the average number of deaths per day was 1.9. The average number of deaths per day for weekends in 1981 was 2.2.

**Note:** Holiday periods include the number of full days shown in parentheses. Fatalities occurring from 6 p.m. to midnight on the previous day are also included. Regular weekend periods are from 6 p.m. Friday to midnight Sunday.

Beginning with 1982, the number of days included in a holiday period have been standardized as follows:

*1 day if holiday falls on Wednesday
*3 days if holiday falls on Friday through Monday
*4 days if holiday falls on Tuesday or Thursday

| Year | New Year's Day | Memorial Day | Fourth of July | Labor Day | Thanksgiving Day | Christmas Day |
|---|---|---|---|---|---|---|
| 1962 | 3 (4) | 2 (2) | -- (1) | 5 (3) | No Record | 11 (4) |
| 1963 | 4 (1) | 6 (4) | 18 (4) | 8 (3) | No Record | 7 (1) |
| 1964 | 3 (3) | 4 (3) | 7 (3) | 15 (3) | No Record | 13 (3) |
| 1965 | 7 (3) | 6 (3) | 9 (3) | 11 (3) | No Record | 13 (3) |
| 1966 | 6 (3) | 11 (3) | 7 (3) | 27 (3) | No Record | 6 (3) |
| 1967 | 4 (3) | 7 (4) | 13 (4) | 9 (3) | No Record | 8 (3) |
| 1968 | 1 (1) | 11 (4) | 16 (4) | 18 (3) | 10 (4) | 5 (1) |
| 1969 | 12 (4) | 7 (3) | 10 (3) | 11 (3) | 13 (4) | 7 (4) |
| 1970 | 8 (3) | 8 (3) | 10 (3) | 13 (3) | 12 (4) | 7 (3) |
| 1971 | 4 (3) | 5 (3) | 12 (3) | 15 (3) | 12 (4) | 9 (3) |
| 1972 | 5 (3) | 9 (3) | 3 (1) | 6 (3) | 14 (4) | 12 (3) |
| 1973 | 6 (4) | 7 (3) | 5 (1) | 11 (3) | 14 (4) | 9 (4) |
| 1974 | 6 (1) | 4 (3) | 8 (4) | 16 (3) | 13 (4) | 4 (1) |
| 1975 | 5 (4) | 6 (3) | 7 (3) | 8 (3) | 3 (4) | 5 (4) |
| 1976 | 9 (3) | 6 (3) | 16 (3) | 10 (3) | 9 (4) | 5 (3) |
| 1977 | 1 (3) | 11 (3) | 16 (3) | 6 (3) | 7 (4) | 5 (3) |
| 1978 | 3 (3) | 13 (3) | 8 (4) | 5 (3) | 14 (4) | 3 (3) |
| 1979 | 1 (3) | 9 (3) | 8 (1) | 11 (3) | 10 (4) | 11 (4) |
| 1980 | 7 (4) | 5 (3) | 9 (3) | 11 (3) | 13 (4) | 1 (4) |
| 1981 | 8 (4) | 8 (3) | 5 (3) | 7 (3) | 7 (4) | 6 (3) |

# Iowa Accidents Involving

## Fatalities

**In 1981 there were:**
**612 persons killed in 529 fatal accidents**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 40 | 5.1 |
| Improper passing | 25 | 3.2 |
| Left of center, not passing | 58 | 7.4 |
| Failure to yield | 45 | 5.7 |
| Wrong way, one-way road | 0 | -- |
| Speed too fast | 124 | 15.8 |
| Drag racing | 0 | -- |
| Improper turn | 3 | 0.4 |
| Improper lane change | 1 | 0.1 |
| Following too close | 3 | 0.4 |
| Improper or no signal | 1 | 0.1 |
| Disregarded R.R. signal | 4 | 0.5 |
| Disregarded warning signal | 2 | 0.3 |
| Reckless driving | 16 | 2.0 |
| Improper backing | 1 | 0.1 |
| Illegal or improper parking | 1 | 0.1 |
| Failure to have control | 174 | 22.2 |
| Lights not on | 2 | 0.3 |
| Inattentive/distracted | 25 | 3.2 |
| Confused/inexperienced | 13 | 1.7 |
| Vision obscured | 118 | 15.0 |
| Oversized vehicle | 0 | -- |
| Other | 40 | 5.1 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 392 | 60.2 |
| Drinking - impaired | 182 | 28.0 |
| Drinking - not impaired | 51 | 7.8 |
| Drugs | 0 | -- |
| Physical defect | 2 | 0.3 |
| Fatigued | 4 | 0.6 |
| Apparently asleep | 9 | 1.4 |
| Ill | 2 | 0.3 |
| Under medication | 3 | 0.5 |
| Infirmities of age | 5 | 0.8 |
| Other | 1 | 0.2 |
| Total no. of drivers (condition stated) | 651 | |
| Condition not stated | 134 | |
| GRAND TOTAL | 785 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 638 | 82.0 |
| Female | 140 | 18.0 |
| Total no. of drivers (sex known) | 778 | |
| Sex not stated | 7 | |
| GRAND TOTAL | 785 | |

| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 14 | 1.8 |
| 16 | 22 | 2.8 |
| 17 | 31 | 4.0 |
| 18 | 41 | 5.3 |
| 19 | 38 | 4.9 |
| 20-24 | 152 | 19.5 |
| 25-34 | 199 | 25.6 |
| 35-44 | 96 | 12.3 |
| 45-54 | 63 | 8.1 |
| 55-64 | 62 | 8.0 |
| 65-74 | 41 | 5.3 |
| 75 & older | 19 | 2.4 |
| Total no. of drivers (age known) | 778 | |
| Age not stated | 7 | |
| GRAND TOTAL | 785 | |

Note: In 1981 fatal accidents, 79.8 percent of the vehicle occupants who were killed or injured were not wearing seat belts, 2.6 percent were wearing seat belts, and seat belt use was unknown or unreported for 17.6 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 635 | 81.0 |
| Turning left | 53 | 6.8 |
| Turning right | 11 | 1.4 |
| Backing | 5 | 0.6 |
| Stopped in traffic | 5 | 0.6 |
| Parked | 10 | 1.3 |
| Making U-turn | 1 | |
| Passing | 31 | |
| Changing lanes | 4 | |
| Merging | 1 | 8.3 |
| Parking | 1 | |
| Slowing-stopping | 2 | |
| Unattended moving vehicle | 1 | |
| Other | 24 | |
| Total no. of vehicles (action stated) | 784 | |
| Action not stated | 12 | |
| GRAND TOTAL | 796 | |

Note: Total number of vehicles includes parked vehicles involved in accidents.

| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 435 | 93.5 |
| Brakes | 3 | |
| Lights | 4 | |
| Steering | 2 | |
| Wipers | 0 | 6.5 |
| Tires | 11 | |
| Trailer hitch | 3 | |
| Other | 7 | |
| Total no. of vehicles (defect stated) | 465 | |
| Defect not stated | 331 | |
| GRAND TOTAL | 796 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 8 | 1.5 |
| Daylight | 229 | 43.3 |
| Dusk | 14 | 2.6 |
| Darkness (road lighted) | 60 | 11.3 |
| Darkness (road unlighted) | 218 | 41.2 |
| Total no. of accidents (light stated) | 529 | |
| Light not stated | 0 | |
| GRAND TOTAL | 529 | |

Note: Figures indicate number of accidents involving fatalities occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 344 | 65.0 |
| Cloudy | 152 | 28.7 |
| Fog | 6 | 1.1 |
| Mist | 9 | 1.7 |
| Rain | 17 | 3.2 |
| Sleet/hail | 0 | -- |
| Snow | 10 | 1.9 |
| Strong wind | 7 | 1.3 |
| Other | 0 | -- |

Note: Some accident reports listed more than one type of weather condition. However, the percentage listed for each weather condition is based on the total number of accidents involving fatalities.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 20 | 8.0 |
| Underpass/bridge support | 0 | -- |
| Building | 2 | 0.8 |
| Culvert | 14 | 5.6 |
| Curb | 4 | 1.6 |
| Ditch | 81 | 32.4 |
| Island/raised median | 0 | -- |
| Embankment/retaining wall | 19 | 7.6 |
| Fence | 19 | 7.6 |
| Guardrail | 9 | 3.6 |
| Light pole | 10 | 4.0 |
| Sign post | 9 | 3.6 |
| Tree or shrubbery | 19 | 7.6 |
| Utility pole | 19 | 7.6 |
| Other pole or support | 10 | 4.0 |
| Mailbox | 0 | -- |
| Impact attenuator | 0 | -- |
| Other | 15 | 6.0 |

31.4% of vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 354 | 67.0 |
| Traffic signals | 18 | 3.4 |
| Stop sign | 63 | 11.9 |
| Yield sign | 1 | |
| No passing zone (marked) | 25 | |
| R.R. warning sign | 5 | |
| R.R. automatic signal | 2 | 17.6 |
| R.R. crossing gate | 2 | |
| Other | 58 | |
| Total no. of accidents (control stated) | 528 | |
| Control not stated | 1 | |
| GRAND TOTAL | 529 | |

# Iowa
# Accidents Involving

## Alcohol

**In 1981 there were:**

- **276 persons killed in alcohol-related accidents, or 45.1 percent of all traffic fatalities**
- **4,869 persons injured in alcohol-related accidents**
- **6,995 accidents involving alcohol and motor vehicles**
  - **236 fatal accidents involving alcohol and motor vehicles, or 44.6 percent of all fatal accidents**
  - **3,184 personal injury accidents involving alcohol and motor vehicles**
  - **3,575 property damage accidents involving alcohol and motor vehicles**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers/ Operators | Percent |
|---|---|---|
| **Drinking driver/operator actions:** | | |
| Ran traffic control | 363 | 5.0 |
| Improper passing | 110 | 1.5 |
| Left of center, not passing | 383 | 5.3 |
| Failure to yield | 440 | 6.1 |
| Wrong way, one-way road | 34 | 0.5 |
| Speed too fast | 1,103 | 15.3 |
| Drag racing | 8 | 0.1 |
| Improper turn | 103 | 1.4 |
| Improper lane change | 72 | 1.0 |
| Following too close | 151 | 2.1 |
| Improper or no signal | 22 | 0.3 |
| Disregarded R.R. signal | 10 | 0.1 |
| Disregarded warning signal | 23 | 0.3 |
| Reckless driving | 436 | 6.0 |
| Improper backing | 93 | 1.3 |
| Illegal or improper parking | 37 | 0.5 |
| Failure to have control | 3,488 | 48.1 |
| Lights not on | 35 | 0.5 |
| Inattentive/distracted | 545 | 7.6 |
| Confused/inexperienced | 244 | 3.4 |
| Vision obscured | 268 | 3.7 |
| Oversized vehicle | 3 | -- |
| Other | 934 | 13.0 |
| **Drinking pedestrian actions:** | **Pedestrians** | **Percent** |
| Crossing against signal | 10 | 12.3 |
| Crossing, not at crosswalk | 20 | 24.7 |
| Walking, improper position on roadway | 4 | 4.9 |
| Walking with traffic | 5 | 6.2 |
| Walking against traffic | 2 | 2.5 |
| Crossing with signal or in crosswalk | 9 | 11.1 |
| Ran onto roadway or into road from between parked cars | 16 | 19.8 |
| Playing | 1 | 1.2 |
| Lying or sitting on roadway | 4 | 4.9 |
| Getting on or off vehicle | 9 | 11.1 |
| Walking, off roadway | 1 | 1.2 |
| Unknown/other | 0 | -- |
| | 81 | |

Note: From 0-2 actions/circumstances are listed for each drinking driver, operator or pedestrian involved in an accident.

| Condition | Number of Drivers/ Operators | (%) | Number of Pedestrians | (%) |
|---|---|---|---|---|
| Apparently normal | 0 | -- | 0 | -- |
| Drinking - impaired | 3,811 | 52.9 | 48 | 59.3 |
| Drinking - not impaired | 3,380 | 46.9 | 33 | 40.7 |
| Drugs | 1 | -- | 0 | -- |
| Physical defect | 0 | -- | 0 | -- |
| Fatigued | 3 | -- | 0 | -- |
| Apparently asleep | 7 | 0.1 | 0 | -- |
| Ill | 0 | -- | 0 | -- |
| Under medication | 0 | -- | 0 | -- |
| Infirmities of age | 2 | -- | 0 | -- |
| Other | 4 | 0.1 | 0 | -- |
| Total no. of drivers (condition stated) | 7,208 | | 81 | |
| Condition not stated | 3 | | 0 | |
| GRAND TOTAL | 7,211 | | 81 | |

Note: Some of the drinking drivers were not listed as 'condition = drinking,' but did have a blood alcohol content greater than 0. This may occur because the report form provides space to list only one condition, although more than one condition may have been applicable to the driver at the time. If the driver fell asleep at the wheel and possessed a BAC above 0, for instance, the officer may have listed the condition as 'apparently asleep.'

| Sex | Number of Drivers/ Operators | (%) | Number of Pedestrians | (%) |
|---|---|---|---|---|
| Male | 6,152 | 86.1 | 65 | 80.2 |
| Female | 994 | 13.9 | 16 | 19.8 |
| Total no. of drivers (sex known) | 7,146 | | 81 | |
| Sex not stated | 65 | | | |
| GRAND TOTAL | 7,211 | | 81 | |

| Age | Number of Drivers/ Operators | (%) | Number of Pedestrians | (%) |
|---|---|---|---|---|
| 15 & younger | 25 | 0.4 | 0 | -- |
| 16 | 175 | 2.5 | 2 | 2.5 |
| 17 | 313 | 4.4 | 0 | -- |
| 18 | 493 | 6.9 | 4 | 5.1 |
| 19 | 623 | 8.7 | 2 | 2.5 |
| 20-24 | 2,141 | 30.0 | 22 | 27.8 |
| 25-34 | 1,915 | 26.8 | 22 | 27.8 |
| 35-44 | 679 | 9.5 | 6 | 7.6 |
| 45-54 | 393 | 5.5 | 7 | 8.9 |
| 55-64 | 256 | 3.6 | 8 | 10.1 |
| 65-74 | 104 | 1.5 | 4 | 5.1 |
| 75 & older | 19 | 0.3 | 2 | 2.5 |
| Total no. of drivers (age known) | 7,136 | | 79 | |
| Age not stated | 75 | | 2 | |
| GRAND TOTAL | 7,211 | | 81 | |

Note: In 1981 alcohol-related accidents, 86.1 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts, 2.1 percent were wearing seat belts, and seat belt use was unknown or unreported for 11.8 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 5,347 | 74.7 |
| Turning left | 671 | 9.4 |
| Turning right | 367 | 5.1 |
| Backing | 111 | 1.6 |
| Stopped in traffic | 57 | 0.8 |
| Parked | 12 | 0.2 |
| Making U-turn | 33 | 0.5 |
| Passing | 124 | 1.7 |
| Changing lanes | 76 | 1.1 |
| Merging | 27 | 0.4 |
| Parking | 8 | 0.1 |
| Slowing-stopping | 58 | 0.8 |
| Unattended moving vehicle | 0 | – |
| Other | 267 | 3.7 |
| Total no. of vehicles (action stated) | 7,158 | |
| Action not stated | 53 | |
| GRAND TOTAL | 7,211 | |

Note: The 7,211 vehicles include parked vehicles with drinking drivers.

| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 5,608 | 96.1 |
| Brakes | 46 | 0.8 |
| Lights | 12 | 0.2 |
| Steering | 18 | 0.3 |
| Wipers | 2 | – |
| Tires | 89 | 1.5 |
| Trailer hitch | 1 | – |
| Other | 57 | 1.0 |
| Total no. of vehicles (defect stated) | 5,833 | |
| Defect not stated | 1,378 | |
| GRAND TOTAL | 7,211 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 53 | 0.8 |
| Daylight | 1,185 | 16.9 |
| Dusk | 191 | 2.7 |
| Darkness (road lighted) | 3,339 | 47.7 |
| Darkness (road unlighted) | 2,225 | 31.8 |
| Total no. of accidents (light stated) | 6,993 | |
| Light not stated | 2 | |
| GRAND TOTAL | 6,995 | |

Note: Figures indicate number of accidents involving alcohol occuring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 4,335 | 62.0 |
| Cloudy | 2,008 | 28.7 |
| Fog | 104 | 1.5 |
| Mist | 217 | 3.1 |
| Rain | 397 | 5.7 |
| Sleet/hail | 11 | 0.2 |
| Snow | 110 | 1.6 |
| Strong wind | 91 | 1.3 |
| Other | 36 | 0.5 |

Note: Some accident reports listed more than one type of weather condition. However, the percentage listed for each weather condition is based on the total number of alcohol-related accidents.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 152 | 4.6 |
| Underpass/bridge support | 11 | 0.3 |
| Building | 142 | 4.3 |
| Culvert | 86 | 2.6 |
| Curb | 106 | 3.2 |
| Ditch | 716 | 21.7 |
| Island/raised median | 51 | 1.5 |
| Embankment/retaining wall | 117 | 3.6 |
| Fence | 253 | 7.7 |
| Guardrail | 102 | 3.1 |
| Light pole | 317 | 9.6 |
| Sign post | 190 | 5.8 |
| Tree or shrubbery | 248 | 7.5 |
| Utility pole | 432 | 13.1 |
| Other pole or support | 94 | 2.9 |
| Mailbox | 54 | 1.6 |
| Impact attenuator | 7 | 0.2 |
| Other | 217 | 6.6 |

45.7% of drinking drivers involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 5,030 | 72.7 |
| Traffic signals | 688 | 9.9 |
| Stop sign | 599 | 8.7 |
| Yield sign | 32 | |
| No passing zone (marked) | 95 | |
| R.R. warning sign | 24 | |
| R.R. automatic signal | 14 | 8.8 |
| R.R. crossing gate | 9 | |
| Other | 427 | |
| Total no. of accidents (control stated) | 6,918 | |
| Control not stated | 21 | |
| GRAND TOTAL | 6,939 | |

Note: The 6,939 figure does not include accidents in which only the pedestrian was drinking.

# SUMMARY
## Pedestrians

**Alcohol-Related Pedestrian Accidents:**

| | Fatal Acc. | | Injury Acc. | |
|---|---|---|---|---|
| | No. | % | No. | % |
| Pedestrian (only) drinking | 13 | 28.3 | 40 | 4.4 |
| Driver (only) drinking | 1 | 2.2 | 118 | 12.9 |
| Pedestrian and driver drinking | 2 | 4.3 | 23 | 2.5 |
| No alcohol involvement | 30 | 65.2 | 730 | 80.0 |
| Unknown | 0 | -- | 1 | 0.1 |
| Total | 46 | | 912 | |

**Fatalities:**

| Age | Killed | % | Injured | % |
|---|---|---|---|---|
| 0-4 | 4 | 8.7 | 107 | 11.3 |
| 5-9 | 8 | 17.4 | 207 | 21.8 |
| 10-14 | 2 | 4.3 | 113 | 11.9 |
| 15-19 | 2 | 4.3 | 109 | 11.5 |
| 20-24 | 5 | 10.9 | 76 | 8.0 |
| 25-44 | 9 | 19.6 | 133 | 14.0 |
| 45-64 | 5 | 10.9 | 72 | 7.6 |
| 65+ | 11 | 23.9 | 90 | 9.5 |
| Not stated | 0 | -- | 44 | 4.6 |
| Total | 46 | | 951 | |

Of all pedestrian fatalities, 50% were persons under 10 or over 64 years of age.

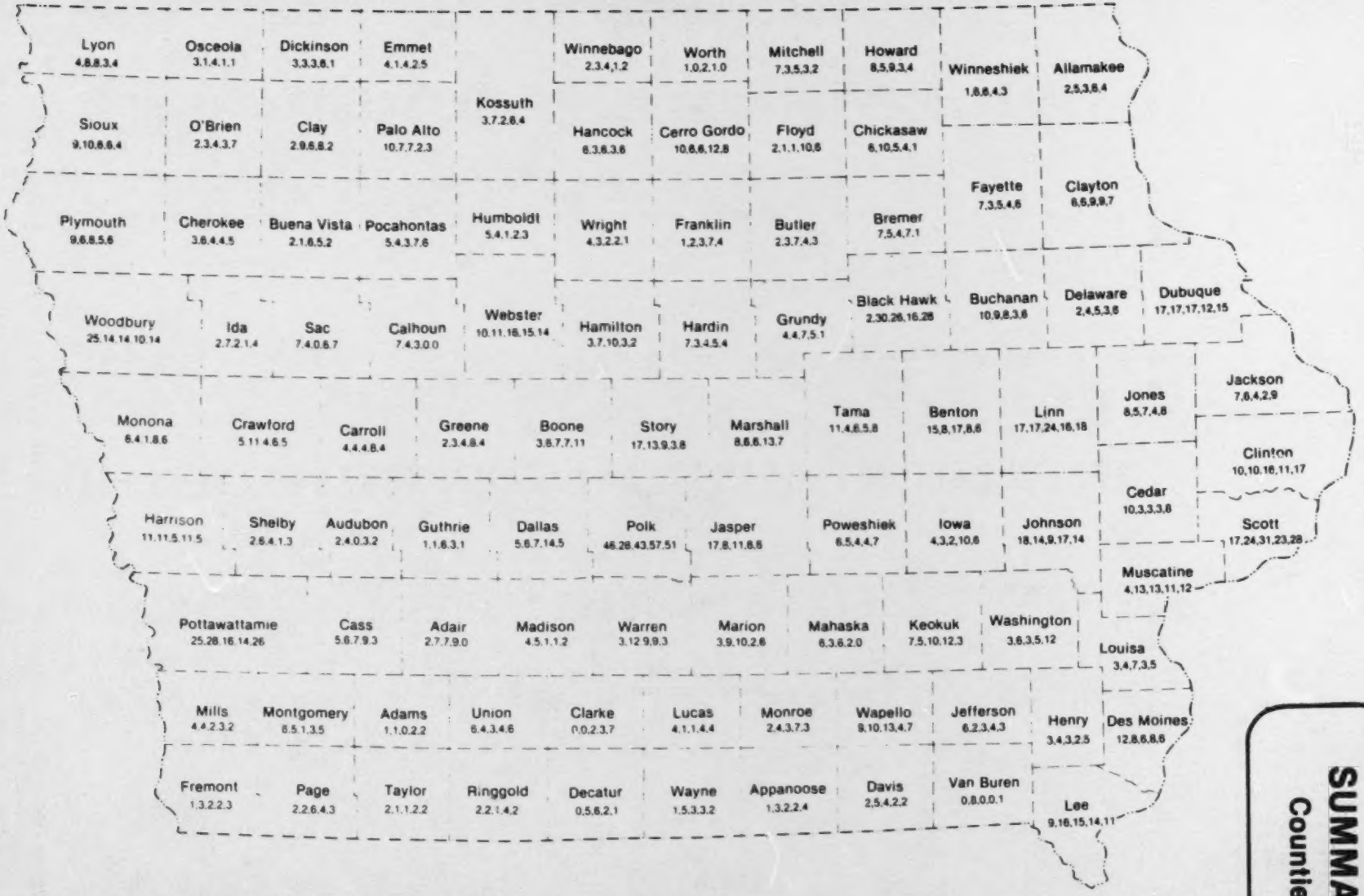
**All Pedestrian Accidents:**

| Pedestrian Action | Killed | Injured |
|---|---|---|
| Crossing against signal | 3 | 45 |
| Crossing, not at crosswalk | 13 | 147 |
| Walking, improper position on roadway | 2 | 39 |
| Soliciting rides on road | 0 | 3 |
| Walking with traffic | 1 | 25 |
| Walking against traffic | 3 | 8 |
| Crossing with signal or in crosswalk | 3 | 157 |
| Ran onto roadway or into road from between parked cars | 12 | 299 |
| Directing traffic | 0 | 6 |
| Playing | 0 | 32 |
| Lying or sitting on roadway | 2 | 7 |
| Pushing, working on vehicle | 3 | 22 |
| Getting on or off vehicle | 2 | 31 |
| Maintenance/construction project | 0 | 2 |
| Walking, off roadway | 2 | 24 |
| Unknown | 0 | 104 |
| Total | 46 | 951 |

| Driver Action/ Contributing Circum.* | Fatal Acc. | Injury Acc. |
|---|---|---|
| Ran traffic control | 2 | 36 |
| Improper passing | 2 | 8 |
| Left of center, not passing | 2 | 20 |
| Failure to yield | 6 | 176 |
| Speeding | 7 | 61 |
| Improper turn | 0 | 14 |
| Improper lane change | 0 | 14 |
| Following too close | 0 | 17 |
| Disregarded warning signal | 0 | 0 |
| Reckless driving | 0 | 30 |
| Improper backing | 1 | 20 |
| Failure to control | 12 | 120 |
| Head lights not on | 1 | 5 |
| Driver physical condition | 6 | 0 |
| Driver drinking | 1 | 0 |
| Inattentive/distracted | 11 | 86 |
| Confused/inexperienced | 2 | 35 |
| Vision obscured | 16 | 163 |
| Vehicle defect | 0 | 0 |
| Vehicle overloaded/oversized | 1 | 3 |
| Other | 8 | 80 |

*0-2 actions/circumstances were listed for each driver.

## Fatalities by County
## 1977-1981




Numbers represent fatalities, in order, for each year from 1977 through 1981.

# SUMMARY
## Counties

| County | Registrations* | All Acc. | Acc. Rate** | Fatal Acc. | Persons Killed | Injury Acc. | Persons Injured |
|---|---|---|---|---|---|---|---|
| Adair | 9,893 | 217 | 219 | 0 | 0 | 67 | 94 |
| Adams | 6,085 | 103 | 169 | 2 | 2 | 38 | 59 |
| Allamakee | 13,377 | 326 | 244 | 3 | 4 | 86 | 114 |
| Appanoose | 13,778 | 289 | 210 | 4 | 4 | 79 | 118 |
| Audubon | 8,453 | 172 | 203 | 2 | 2 | 57 | 84 |
| Benton | 22,538 | 447 | 198 | 6 | 6 | 136 | 200 |
| Black Hawk | 121,732 | 3,251 | 267 | 24 | 28 | 985 | 1,374 |
| Boone | 25,371 | 507 | 200 | 8 | 11 | 160 | 235 |
| Bremer | 22,369 | 432 | 193 | 1 | 1 | 123 | 184 |
| Buchanan | 19,918 | 443 | 222 | 5 | 6 | 122 | 160 |
| Buena Vista | 20,401 | 442 | 217 | 2 | 2 | 137 | 219 |
| Butler | 17,363 | 253 | 146 | 3 | 3 | 87 | 159 |
| Calhoun | 13,345 | 240 | 180 | 0 | 0 | 78 | 102 |
| Carroll | 21,247 | 563 | 265 | 3 | 4 | 183 | 267 |
| Cass | 17,612 | 450 | 256 | 3 | 3 | 141 | 208 |
| Cedar | 18,381 | 336 | 183 | 7 | 8 | 83 | 129 |
| Cerro Gordo | 43,935 | 1,429 | 325 | 7 | 8 | 417 | 599 |
| Cherokee | 16,134 | 371 | 230 | 5 | 5 | 101 | 166 |
| Chickasaw | 14,380 | 252 | 175 | 1 | 1 | 67 | 121 |
| Clarke | 8,183 | 202 | 247 | 4 | 7 | 65 | 91 |
| Clay | 18,360 | 575 | 313 | 2 | 2 | 163 | 241 |
| Clayton | 19,140 | 453 | 237 | 5 | 7 | 123 | 174 |
| Clinton | 47,988 | 1,558 | 325 | 14 | 17 | 352 | 507 |
| Crawford | 17,991 | 482 | 268 | 4 | 5 | 140 | 205 |
| Dallas | 28,626 | 554 | 194 | 5 | 5 | 170 | 248 |
| Davis | 7,998 | 156 | 195 | 2 | 2 | 51 | 84 |
| Decatur | 8,444 | 170 | 201 | 1 | 1 | 45 | 72 |
| Delaware | 16,907 | 343 | 203 | 5 | 6 | 108 | 169 |
| Des Moines | 41,545 | 992 | 239 | 5 | 6 | 307 | 421 |
| Dickinson | 15,141 | 384 | 254 | 1 | 1 | 126 | 194 |
| Dubuque | 68,227 | 2,443 | 358 | 13 | 15 | 704 | 973 |
| Emmet | 12,964 | 296 | 228 | 4 | 5 | 87 | 140 |
| Fayette | 22,593 | 435 | 193 | 5 | 6 | 106 | 144 |
| Floyd | 18,374 | 401 | 218 | 5 | 6 | 124 | 175 |
| Franklin | 13,400 | 242 | 181 | 4 | 4 | 76 | 112 |
| Fremont | 9,483 | 253 | 267 | 3 | 3 | 80 | 115 |
| Greene | 12,974 | 254 | 196 | 4 | 4 | 86 | 128 |
| Grundy | 14,374 | 243 | 169 | 1 | 1 | 87 | 142 |
| Guthrie | 12,098 | 192 | 159 | 1 | 1 | 56 | 75 |
| Hamilton | 18,136 | 417 | 230 | 2 | 2 | 134 | 194 |
| Hancock | 13,224 | 205 | 155 | 3 | 6 | 58 | 93 |
| Hardin | 21,441 | 396 | 185 | 4 | 4 | 141 | 194 |
| Harrison | 15,700 | 415 | 264 | 5 | 5 | 116 | 172 |
| Henry | 17,718 | 344 | 194 | 5 | 5 | 104 | 163 |
| Howard | 10,556 | 173 | 164 | 3 | 4 | 48 | 77 |

*County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes and vehicles registered to non-Iowa residents.

**Per 10,000 registered vehicles

# SUMMARY
## Counties

| County | Registrations* | All Acc. | Acc. Rate** | Fatal Acc. | Persons Killed | Injury Acc. | Persons Injured |
|---|---|---|---|---|---|---|---|
| Humboldt | 12,656 | 226 | 179 | 3 | 3 | 67 | 103 |
| Ida | 9,250 | 187 | 202 | 2 | 4 | 42 | 57 |
| Iowa | 15,611 | 314 | 201 | 5 | 6 | 104 | 156 |
| Jackson | 18,991 | 368 | 194 | 8 | 9 | 113 | 179 |
| Jasper | 34,611 | 734 | 212 | 6 | 6 | 204 | 272 |
| Jefferson | 14,459 | 357 | 247 | 3 | 3 | 105 | 135 |
| Johnson | 58,139 | 1,792 | 308 | 12 | 14 | 565 | 804 |
| Jones | 18,566 | 367 | 198 | 7 | 8 | 99 | 154 |
| Keokuk | 12,940 | 204 | 158 | 3 | 3 | 47 | 82 |
| Kossuth | 22,103 | 385 | 174 | 4 | 4 | 116 | 183 |
| Lee | 37,242 | 1,072 | 288 | 10 | 11 | 247 | 361 |
| Linn | 144,152 | 3,690 | 256 | 17 | 18 | 1,024 | 1,417 |
| Louisa | 11,563 | 244 | 211 | 3 | 5 | 83 | 121 |
| Lucas | 10,003 | 235 | 235 | 4 | 4 | 74 | 112 |
| Lyon | 12,269 | 181 | 148 | 4 | 4 | 42 | 65 |
| Madison | 12,614 | 233 | 185 | 1 | 2 | 93 | 141 |
| Mahaska | 21,227 | 474 | 223 | 0 | 0 | 135 | 200 |
| Marion | 26,338 | 559 | 212 | 5 | 6 | 198 | 265 |
| Marshall | 38,921 | 1,037 | 266 | 6 | 7 | 342 | 490 |
| Mills | 11,642 | 305 | 262 | 2 | 2 | 97 | 143 |
| Mitchell | 11,759 | 184 | 156 | 2 | 2 | 57 | 85 |
| Monona | 12,033 | 240 | 199 | 6 | 6 | 74 | 122 |
| Monroe | 8,670 | 207 | 239 | 1 | 3 | 63 | 90 |
| Montgomery | 12,775 | 357 | 279 | 4 | 5 | 100 | 151 |
| Muscatine | 36,924 | 1,049 | 284 | 10 | 12 | 343 | 490 |
| O'Brien | 16,137 | 304 | 188 | 7 | 7 | 74 | 127 |
| Osceola | 8,219 | 124 | 151 | 1 | 1 | 30 | 39 |
| Page | 16,838 | 347 | 206 | 3 | 3 | 81 | 121 |
| Palo Alto | 12,019 | 284 | 236 | 2 | 3 | 88 | 134 |
| Plymouth | 22,211 | 534 | 240 | 6 | 6 | 161 | 226 |
| Pocahontas | 11,608 | 183 | 158 | 3 | 6 | 71 | 98 |
| Polk | 251,535 | 10,180 | 405 | 43 | 51 | 2,822 | 4,081 |
| Pottawattamie | 72,837 | 2,536 | 348 | 24 | 26 | 747 | 1,043 |
| Poweshiek | 18,230 | 333 | 183 | 5 | 7 | 109 | 186 |
| Ringgold | 6,433 | 114 | 177 | 1 | 2 | 26 | 39 |
| Sac | 14,242 | 291 | 204 | 5 | 7 | 97 | 147 |
| Scott | 131,439 | 4,278 | 325 | 25 | 28 | 1,324 | 1,858 |
| Shelby | 14,654 | 240 | 164 | 3 | 3 | 75 | 114 |
| Sioux | 26,536 | 398 | 150 | 4 | 4 | 106 | 161 |
| Story | 52,162 | 1,384 | 265 | 7 | 8 | 371 | 511 |
| Tama | 19,049 | 335 | 176 | 7 | 8 | 114 | 178 |
| Taylor | 8,190 | 135 | 165 | 2 | 2 | 20 | 34 |
| Union | 13,070 | 365 | 279 | 4 | 6 | 100 | 130 |
| Van Buren | 8,231 | 127 | 154 | 1 | 1 | 32 | 58 |
| Wapello | 34,326 | 838 | 244 | 6 | 7 | 285 | 401 |

*County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes and vehicles registered to non-Iowa residents.

**Per 10,000 registered vehicles

# SUMMARY
## Counties

| County | Registrations* | All Acc. | Acc. Rate** | Fatal Acc. | Persons Killed | Injury Acc. | Persons Injured |
|---|---|---|---|---|---|---|---|
| Warren | 31,317 | 552 | 176 | 3 | 3 | 190 | 279 |
| Washington | 19,098 | 409 | 214 | 11 | 12 | 134 | 199 |
| Wayne | 8,109 | 111 | 137 | 2 | 2 | 37 | 54 |
| Webster | 41,387 | 1,448 | 350 | 13 | 14 | 423 | 622 |
| Winnebago | 12,775 | 153 | 120 | 1 | 2 | 37 | 45 |
| Winneshiek | 18,731 | 549 | 293 | 3 | 3 | 120 | 170 |
| Woodbury | 94,711 | 3,185 | 336 | 12 | 14 | 899 | 1,250 |
| Worth | 8,853 | 140 | 158 | 0 | 0 | 49 | 72 |
| Wright | 15,733 | 284 | 181 | 1 | 1 | 85 | 126 |
| **Total** | **2,592,035** | **68,263** | **263** | **529** | **612** | **19,945** | **28,776** |

*County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes and vehicles registered to non-Iowa residents.

**Per 10,000 registered vehicles

# SUMMARY

## Counties: Acc. by Road System

| | Interstate/ Freeway | | | U.S. or State Highway | | | County Road | | | City Street | | | Other/Unknown | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. |
| Adair | 0 | 22 | 47 | 0 | 13 | 29 | 0 | 24 | 32 | 0 | 8 | 41 | 0 | 0 | 1 |
| Adams | 0 | 0 | 0 | 1 | 15 | 15 | 1 | 15 | 22 | 0 | 8 | 24 | 0 | 0 | 2 |
| Allamakee | 0 | 0 | 0 | 1 | 31 | 95 | 2 | 42 | 90 | 0 | 13 | 51 | 0 | 0 | 1 |
| Appanoose | 0 | 0 | 0 | 2 | 37 | 75 | 2 | 21 | 46 | 0 | 21 | 78 | 0 | 0 | 7 |
| Audubon | 0 | 0 | 0 | 2 | 21 | 32 | 0 | 28 | 43 | 0 | 7 | 37 | 0 | 1 | 1 |
| Benton | 0 | 0 | 0 | 3 | 50 | 117 | 3 | 68 | 86 | 0 | 17 | 100 | 0 | 1 | 2 |
| Black Hawk | 0 | 0 | 0 | 12 | 457 | 892 | 6 | 74 | 85 | 6 | 444 | 1,237 | 0 | 10 | 28 |
| Boone | 0 | 0 | 0 | 4 | 28 | 56 | 2 | 46 | 67 | 2 | 84 | 208 | 0 | 2 | 6 |
| Bremer | 0 | 0 | 0 | 0 | 60 | 163 | 1 | 49 | 63 | 0 | 14 | 81 | 0 | 0 | 1 |
| Buchanan | 0 | 0 | 0 | 3 | 49 | 132 | 2 | 53 | 63 | 0 | 19 | 120 | 0 | 1 | 1 |
| Buena Vista | 0 | 0 | 0 | 1 | 59 | 98 | 1 | 38 | 61 | 0 | 38 | 137 | 0 | 2 | 7 |
| Butler | 0 | 0 | 0 | 0 | 27 | 60 | 1 | 45 | 49 | 2 | 15 | 51 | 0 | 0 | 3 |
| Calhoun | 0 | 0 | 0 | 0 | 26 | 51 | 0 | 32 | 35 | 0 | 20 | 74 | 0 | 0 | 2 |
| Carroll | 0 | 0 | 0 | 2 | 64 | 110 | 1 | 50 | 64 | 0 | 64 | 198 | 0 | 5 | 5 |
| Cass | 2 | 25 | 38 | 1 | 61 | 110 | 0 | 28 | 34 | 0 | 25 | 122 | 0 | 2 | 2 |
| Cedar | 2 | 15 | 49 | 2 | 22 | 54 | 3 | 31 | 83 | 0 | 15 | 59 | 0 | 0 | 1 |
| Cerro Gordo | 0 | 17 | 17 | 1 | 204 | 458 | 3 | 43 | 60 | 3 | 143 | 458 | 0 | 10 | 12 |
| Cherokee | 0 | 0 | 0 | 3 | 42 | 98 | 2 | 27 | 53 | 0 | 31 | 109 | 0 | 1 | 5 |
| Chickasaw | 0 | 0 | 0 | 0 | 31 | 84 | 1 | 26 | 44 | 0 | 10 | 53 | 0 | 0 | 3 |
| Clarke | 1 | 14 | 13 | 1 | 26 | 46 | 2 | 13 | 29 | 0 | 9 | 41 | 0 | 3 | 4 |
| Clay | 0 | 0 | 0 | 0 | 64 | 150 | 2 | 49 | 77 | 0 | 50 | 179 | 0 | 0 | 4 |
| Clayton | 0 | 3 | 0 | 3 | 40 | 113 | 2 | 59 | 123 | 0 | 24 | 84 | 0 | 0 | 5 |
| Clinton | 0 | 0 | 0 | 7 | 146 | 449 | 4 | 89 | 112 | 3 | 133 | 605 | 0 | 4 | 26 |
| Crawford | 0 | 0 | 0 | 0 | 62 | 116 | 3 | 38 | 73 | 1 | 40 | 145 | 0 | 0 | 4 |
| Dallas | 0 | 9 | 45 | 1 | 72 | 110 | 4 | 40 | 75 | 0 | 48 | 145 | 0 | 1 | 4 |
| Davis | 0 | 0 | 0 | 1 | 20 | 39 | 1 | 26 | 43 | 0 | 5 | 20 | 0 | 0 | 1 |
| Decatur | 0 | 5 | 18 | 0 | 15 | 39 | 1 | 19 | 38 | 0 | 5 | 29 | 0 | 1 | 0 |
| Delaware | 0 | 0 | 0 | 2 | 30 | 76 | 3 | 48 | 77 | 0 | 26 | 71 | 0 | 4 | 6 |
| Des Moines | 0 | 0 | 0 | 1 | 80 | 166 | 2 | 55 | 55 | 2 | 164 | 441 | 0 | 8 | 18 |
| Dickinson | 0 | 0 | 0 | 0 | 63 | 117 | 1 | 39 | 43 | 0 | 23 | 90 | 0 | 1 | 7 |
| Dubuque | 0 | 0 | 0 | 7 | 234 | 616 | 2 | 121 | 142 | 4 | 345 | 950 | 0 | 4 | 18 |
| Emmet | 0 | 0 | 0 | 1 | 33 | 71 | 2 | 21 | 43 | 1 | 33 | 89 | 0 | 0 | 2 |
| Fayette | 0 | 0 | 0 | 2 | 54 | 119 | 2 | 29 | 90 | 1 | 22 | 112 | 0 | 1 | 3 |
| Floyd | 0 | 0 | 0 | 3 | 39 | 72 | 2 | 42 | 84 | 0 | 42 | 134 | 0 | 1 | 2 |
| Franklin | 0 | 6 | 22 | 2 | 29 | 53 | 2 | 27 | 36 | 0 | 14 | 46 | 0 | 0 | 5 |
| Fremont | 0 | 10 | 18 | 2 | 29 | 53 | 1 | 31 | 55 | 0 | 9 | 43 | 0 | 1 | 1 |
| Greene | 0 | 0 | 0 | 3 | 28 | 53 | 1 | 34 | 44 | 0 | 21 | 66 | 0 | 3 | 1 |
| Grundy | 0 | 0 | 0 | 1 | 31 | 68 | 0 | 41 | 39 | 0 | 15 | 47 | 0 | 0 | 1 |
| Guthrie | 0 | 0 | 0 | 0 | 21 | 54 | 1 | 29 | 54 | 0 | 5 | 26 | 0 | 1 | 1 |
| Hamilton | 0 | 8 | 20 | 0 | 27 | 65 | 1 | 42 | 60 | 1 | 53 | 127 | 0 | 4 | 9 |
| Hancock | 0 | 0 | 0 | 3 | 17 | 57 | 0 | 26 | 29 | 0 | 14 | 54 | 0 | 1 | 4 |
| Hardin | 0 | 0 | 0 | 0 | 57 | 95 | 3 | 52 | 59 | 1 | 32 | 94 | 0 | 0 | 3 |
| Harrison | 0 | 17 | 23 | 3 | 46 | 126 | 1 | 42 | 59 | 0 | 10 | 77 | 1 | 1 | 9 |
| Henry | 0 | 0 | 0 | 3 | 45 | 89 | 2 | 37 | 51 | 0 | 21 | 93 | 0 | 1 | 2 |
| Howard | 0 | 0 | 0 | 1 | 21 | 43 | 2 | 21 | 31 | 0 | 6 | 47 | 0 | 0 | 1 |

# SUMMARY

## Counties: Acc. by Road System

| | Interstate/ Freeway | | | U.S. or State Highway | | | County Road | | | City Street | | | Other/Unknown | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. |
| Humboldt | 0 | 0 | 0 | 1 | 22 | 45 | 2 | 23 | 35 | 0 | 22 | 75 | 0 | 0 | 1 |
| Ida | 0 | 0 | 0 | 2 | 10 | 56 | 0 | 24 | 32 | 0 | 8 | 52 | 0 | 0 | 3 |
| Iowa | 1 | 15 | 39 | 3 | 28 | 53 | 1 | 46 | 58 | 0 | 15 | 55 | 0 | 0 | 0 |
| Jackson | 0 | 0 | 0 | 6 | 57 | 106 | 2 | 26 | 59 | 0 | 30 | 80 | 0 | 0 | 2 |
| Jasper | 2 | 23 | 78 | 2 | 61 | 121 | 2 | 43 | 78 | 0 | 75 | 239 | 0 | 2 | 8 |
| Jefferson | 0 | 0 | 0 | 3 | 44 | 98 | 0 | 31 | 48 | 0 | 28 | 100 | 0 | 2 | 3 |
| Johnson | 2 | 47 | 79 | 6 | 196 | 403 | 4 | 107 | 137 | 0 | 212 | 581 | 0 | 3 | 15 |
| Jones | 0 | 0 | 0 | 5 | 43 | 97 | 2 | 40 | 73 | 0 | 15 | 86 | 0 | 1 | 5 |
| Keokuk | 0 | 0 | 0 | 2 | 21 | 77 | 1 | 13 | 43 | 0 | 13 | 33 | 0 | 0 | 1 |
| Kossuth | 0 | 0 | 0 | 3 | 39 | 87 | 1 | 43 | 56 | 0 | 34 | 119 | 0 | 0 | 3 |
| Lee | 0 | 0 | 0 | 10 | 132 | 383 | 0 | 47 | 103 | 0 | 67 | 311 | 0 | 1 | 18 |
| Linn | 0 | 15 | 30 | 9 | 338 | 850 | 2 | 122 | 141 | 5 | 542 | 1,597 | 1 | 7 | 31 |
| Louisa | 0 | 0 | 0 | 2 | 26 | 56 | 1 | 47 | 59 | 0 | 10 | 41 | 0 | 0 | 2 |
| Lucas | 0 | 0 | 0 | 2 | 32 | 47 | 1 | 17 | 37 | 0 | 23 | 70 | 1 | 2 | 3 |
| Lyon | 0 | 0 | 0 | 1 | 14 | 44 | 3 | 22 | 49 | 0 | 6 | 39 | 0 | 0 | 3 |
| Madison | 0 | 0 | 0 | 1 | 19 | 32 | 0 | 52 | 44 | 0 | 21 | 59 | 0 | 1 | 4 |
| Mahaska | 0 | 0 | 0 | 0 | 62 | 147 | 0 | 35 | 67 | 0 | 36 | 124 | 0 | 2 | 1 |
| Marion | 0 | 0 | 0 | 3 | 74 | 120 | 2 | 66 | 75 | 0 | 55 | 159 | 0 | 3 | 2 |
| Marshall | 0 | 0 | 0 | 3 | 127 | 261 | 3 | 74 | 88 | 0 | 137 | 329 | 0 | 4 | 11 |
| Mills | 0 | 3 | 17 | 0 | 46 | 76 | 1 | 33 | 51 | 1 | 15 | 62 | 0 | 0 | 0 |
| Mitchell | 0 | 0 | 0 | 1 | 18 | 40 | 1 | 29 | 54 | 0 | 10 | 31 | 0 | 0 | 0 |
| Monona | 1 | 8 | 15 | 3 | 28 | 54 | 1 | 32 | 50 | 1 | 6 | 37 | 0 | 0 | 4 |
| Monroe | 0 | 0 | 0 | 1 | 23 | 61 | 0 | 31 | 32 | 0 | 9 | 48 | 0 | 0 | 2 |
| Montgomery | 0 | 0 | 0 | 2 | 37 | 90 | 1 | 35 | 42 | 1 | 27 | 118 | 0 | 1 | 3 |
| Muscatine | 0 | 0 | 0 | 5 | 158 | 305 | 3 | 61 | 59 | 0 | 121 | 315 | 2 | 3 | 17 |
| O'Brien | 0 | 0 | 0 | 3 | 22 | 77 | 4 | 29 | 45 | 0 | 22 | 99 | 0 | 1 | 2 |
| Osceola | 0 | 0 | 0 | 0 | 10 | 26 | 1 | 12 | 31 | 0 | 8 | 32 | 0 | 0 | 4 |
| Page | 0 | 0 | 0 | 1 | 29 | 94 | 0 | 24 | 38 | 2 | 28 | 127 | 0 | 0 | 4 |
| Palo Alto | 0 | 0 | 0 | 1 | 33 | 63 | 1 | 36 | 50 | 0 | 18 | 78 | 0 | 1 | 3 |
| Plymouth | 0 | 0 | 0 | 2 | 58 | 128 | 3 | 48 | 93 | 0 | 53 | 143 | 1 | 2 | 3 |
| Pocahontas | 0 | 0 | 0 | 1 | 26 | 28 | 2 | 35 | 40 | 0 | 10 | 39 | 0 | 0 | 2 |
| Polk | 10 | 218 | 597 | 12 | 769 | 1,774 | 8 | 162 | 236 | 13 | 1,660 | 4,657 | 0 | 13 | 51 |
| Pottawattamie | 10 | 98 | 219 | 5 | 236 | 483 | 2 | 80 | 82 | 6 | 322 | 962 | 1 | 11 | 19 |
| Poweshiek | 1 | 22 | 36 | 1 | 34 | 74 | 3 | 23 | 34 | 0 | 29 | 73 | 0 | 1 | 2 |
| Ringgold | 0 | 0 | 0 | 1 | 8 | 18 | 0 | 16 | 42 | 0 | 2 | 26 | 0 | 0 | 1 |
| Sac | 0 | 0 | 0 | 3 | 26 | 63 | 2 | 53 | 53 | 0 | 16 | 69 | 0 | 2 | 4 |
| Scott | 2 | 83 | 163 | 8 | 440 | 926 | 5 | 53 | 88 | 9 | 732 | 1,721 | 1 | 16 | 31 |
| Shelby | 0 | 0 | 0 | 1 | 27 | 52 | 1 | 25 | 24 | 1 | 23 | 83 | 0 | 0 | 3 |
| Sioux | 0 | 0 | 0 | 4 | 38 | 116 | 0 | 42 | 53 | 0 | 26 | 116 | 0 | 0 | 3 |
| Story | 2 | 22 | 41 | 1 | 90 | 221 | 3 | 57 | 100 | 1 | 198 | 640 | 0 | 4 | 4 |
| Tama | 0 | 0 | 0 | 2 | 50 | 91 | 5 | 47 | 57 | 0 | 15 | 64 | 0 | 2 | 2 |
| Taylor | 0 | 0 | 0 | 0 | 9 | 40 | 2 | 7 | 39 | 0 | 4 | 34 | 0 | 0 | 0 |
| Union | 0 | 0 | 0 | 2 | 32 | 69 | 2 | 26 | 33 | 0 | 39 | 156 | 0 | 3 | 3 |
| Van Buren | 0 | 0 | 0 | 0 | 12 | 40 | 1 | 14 | 25 | 0 | 6 | 27 | 0 | 0 | 2 |
| Wapello | 0 | 0 | 0 | 2 | 83 | 166 | 1 | 62 | 67 | 3 | 138 | 308 | 0 | 2 | 6 |

# SUMMARY

## Counties: Acc. by Road System

| | Interstate/ Freeway | | | U.S. or State Highway | | | County Road | | | City Street | | | Other/Unknown | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. | Fat. Acc. | Inj. Acc. | P.D. Acc. |
| Warren | 0 | 19 | 20 | 1 | 67 | 142 | 2 | 78 | 97 | 0 | 26 | 98 | 0 | 0 | 2 |
| Washington | 0 | 0 | 0 | 8 | 62 | 121 | 3 | 34 | 55 | 0 | 37 | 87 | 0 | 1 | 1 |
| Wayne | 0 | 0 | 0 | 0 | 13 | 28 | 2 | 16 | 26 | 0 | 8 | 17 | 0 | 0 | 1 |
| Webster | 0 | 0 | 0 | 6 | 170 | 343 | 5 | 69 | 96 | 2 | 179 | 551 | 0 | 5 | 22 |
| Winnebago | 0 | 0 | 0 | 1 | 9 | 33 | 0 | 18 | 24 | 0 | 10 | 57 | 0 | 0 | 1 |
| Winneshiek | 0 | 0 | 0 | 3 | 39 | 111 | 0 | 45 | 147 | 0 | 34 | 163 | 0 | 2 | 5 |
| Woodbury | 0 | 68 | 142 | 5 | 162 | 356 | 1 | 82 | 93 | 6 | 579 | 1,652 | 0 | 8 | 31 |
| Worth | 0 | 5 | 10 | 0 | 11 | 38 | 0 | 25 | 24 | 0 | 7 | 17 | 0 | 1 | 2 |
| Wright | 0 | 1 | 3 | 0 | 28 | 59 | 1 | 31 | 46 | 0 | 25 | 86 | 0 | 0 | 4 |
| **Total** | **36** | **795** | **1,799** | **235** | **6,874** | **15,273** | **172** | **4,138** | **6,089** | **78** | **7,956** | **24,035** | **8** | **182** | **593** |

**SUMMARY**
**Collision Accidents: Vehicle Type**

## Collision Accidents: Types of Vehicles Involved Iowa, 1981

In 1981, 78.7 percent of all Iowa accidents involved collisions between two or more vehicles. Three or more vehicles were involved in 6.6 percent of all accidents. The following table shows the types of vehicles involved in Iowa's collision accidents. (For instance: In 1981, 1,454 accidents involved a motorcycle/automobile collision.)

Notes: If a given accident involves more than one motorcycle/automobile collision, for example, it is still only counted in that category once. However, if the accident involves a collision between a motorcycle and an automobile and a collision between a motorcycle and a straight truck, it would be counted under both categories.

| Vehicle Type | Automobile | Automobile/pickup with trailer or camper | Bus | School bus | Bicycle | Moped | Motorcycle | Farm vehicle | Motor home | Recreational vehicle | Train | Panel/van/pickup | Straight truck | Tow/maintenance/ construction vehicle | Truck tractor | Truck tractor with trailer | Other/unkown |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Automobile** | 27,926 | 452 | 193 | 189 | 500 | 272 | 1,454 | 206 | 44 | 247 | 105 | 9,827 | 993 | 284 | 131 | 1,288 | 2,117 |
| **Automobile/pickup with trailer or camper** | 452 | 28 | 1 | 1 | 4 | 3 | 10 | 5 | 1 | 5 | 0 | 92 | 15 | 4 | 2 | 34 | 18 |
| **Bus** | 193 | 1 | 5 | 2 | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 35 | 6 | 1 | 1 | 7 | 4 |
| **School bus** | 189 | 1 | 2 | 4 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 37 | 3 | 6 | 1 | 4 | 1 |
| **Bicycle** | 500 | 4 | 2 | 2 | 13 | 13 | 35 | 1 | 0 | 3 | 0 | 82 | 1 | 0 | 0 | 2 | 18 |
| **Moped** | 272 | 3 | 0 | 1 | 13 | 10 | 14 | 0 | 1 | 1 | 0 | 45 | 5 | 1 | 0 | 0 | 9 |
| **Motorcycle** | 1,454 | 10 | 2 | 3 | 35 | 14 | 84 | 18 | 2 | 2 | 2 | 242 | 25 | 3 | 1 | 16 | 37 |
| **Farm Vehicle** | 206 | 5 | 1 | 1 | 1 | 0 | 18 | 3 | 0 | 1 | 5 | 58 | 29 | 1 | 2 | 23 | 1 |
| **Motor home** | 44 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 1 | 1 | 14 | 0 | 0 | 0 | 1 | 1 |
| **Recreational Vehicle** | 247 | 5 | 1 | 0 | 3 | 1 | 2 | 1 | 1 | 2 | 1 | 53 | 5 | 1 | 0 | 7 | 3 |
| **Train** | 105 | 0 | 0 | 1 | 0 | 0 | 2 | 5 | 1 | 1 | 0 | 45 | 6 | 0 | 0 | 12 | 0 |
| **Panel/van/pickup** | 9,827 | 92 | 35 | 37 | 82 | 45 | 242 | 58 | 14 | 53 | 45 | 1,301 | 223 | 51 | 25 | 272 | 309 |
| **Straight truck** | 993 | 15 | 6 | 3 | 1 | 5 | 25 | 29 | 0 | 5 | 6 | 223 | 41 | 7 | 4 | 63 | 18 |
| **Tow/maintenance/ construction vehicle** | 284 | 4 | 1 | 6 | 0 | 1 | 3 | 1 | 0 | 1 | 0 | 51 | 7 | 4 | 1 | 12 | 6 |
| **Truck tractor** | 131 | 2 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 25 | 4 | 1 | 3 | 9 | 1 |
| **Truck tractor with trailer** | 1,288 | 34 | 7 | 4 | 2 | 0 | 16 | 23 | 1 | 7 | 12 | 272 | 63 | 12 | 9 | 85 | 18 |
| **Other/unknown** | 2,117 | 18 | 4 | 1 | 18 | 9 | 37 | 1 | 1 | 3 | 0 | 309 | 18 | 6 | 1 | 18 | 8 |

# Number of Accidents Involving Specific Vehicle Types: 1981

| Vehicle Type | All Accidents | | Fatal Accidents | | |
|---|---|---|---|---|---|
| | No. | Percent | No. | Percent | Drivers: % with Iowa Licenses* |
| Automobile | 58,595 | 85.8 | 355 | 67.1 | 92.8 |
| Automobile/pickup with trailer or camper | 830 | 1.2 | 4 | 0.3 | 66.7 |
| Bus | 279 | 0.4 | 0 | -- | -- |
| School bus | 273 | 0.4 | 3 | 0.6 | 100.0 |
| Bicycle | 659 | 1.0 | 11 | 2.1 | -- |
| Moped | 508 | 0.7 | 5 | 0.9 | 100.0 |
| Motorcycle | 2,950 | 4.3 | 69 | 13.0 | 88.6 |
| Farm vehicle | 406 | 0.6 | 13 | 2.5 | 100.0 |
| Motor home | 81 | 0.1 | 1 | 0.2 | -- |
| Recreational vehicle | 430 | 0.6 | 5 | 0.9 | 88.2 |
| Train | 176 | 0.3 | 9 | 1.7 | -- |
| Panel/van/pickup | 15,683 | 23.0 | 128 | 24.2 | 89.1 |
| Straight truck | 1,742 | 2.6 | 27 | 5.1 | 88.5 |
| Tow/maintenance/construction vehicle | 420 | 0.6 | 3 | 0.6 | -- |
| Truck tractor | 224 | 0.3 | 3 | 0.9 | 50.0 |
| Truck tractor with trailer | 2,474 | 3.6 | 67 | 12.7 | 46.3 |
| Unknown | 2,121 | 3.1 | 2 | 0.4 | -- |

"All Accident" percentages are based on 68,263 accidents which occurred in 1981. Fatal accident percentages are based on 529 fatal accidents which occurred in 1981.

*86.4 percent of all drivers involved in fatal accidents in Iowa during 1981 were licensed in Iowa.

# Iowa
# Accidents Involving

## All Vehicles

**In 1981 there were:**
**554 motor vehicle occupants killed**
**27,143 motor vehicle occupants injured**
**68,283 accidents involving motor vehicles**
**529 fatal accidents involving motor vehicles**
**19,945 personal injury accidents involving motor vehicles**
**47,789 property damage accidents involving motor vehicles**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 3,597 | 3.2 |
| Improper passing | 1,395 | 1.3 |
| Left of center, not passing | 1,785 | 1.6 |
| Failure to yield | 12,306 | 11.1 |
| Wrong way, one-way road | 137 | 0.1 |
| Speed too fast | 5,349 | 4.8 |
| Drag racing | 35 | -- |
| Improper turn | 1,772 | 1.6 |
| Improper lane change | 1,629 | 1.5 |
| Following too close | 2,574 | 2.3 |
| Improper or no signal | 615 | 0.6 |
| Disregarded R.R. signal | 65 | 0.1 |
| Disregarded warning signal | 116 | 0.1 |
| Reckless driving | 1,059 | 1.0 |
| Improper backing | 1,967 | 1.8 |
| Illegal or improper parking | 273 | 0.2 |
| Failure to have control | 13,925 | 12.6 |
| Lights not on | 170 | 0.2 |
| Inattentive/distracted | 5,766 | 5.2 |
| Confused/inexperienced | 2,508 | 2.3 |
| Vision obscured | 12,892 | 11.6 |
| Oversized vehicle | 148 | 0.1 |
| Other | 5,523 | 5.0 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 98,433 | 90.9 |
| Drinking - impaired | 3,801 | 3.5 |
| Drinking - not impaire | 3,373 | 3.1 |
| Drugs | 54 | -- |
| Physical defect | 188 | 0.2 |
| Fatigued | 516 | 0.5 |
| Apparently asleep | 816 | 0.8 |
| Ill | 85 | 0.1 |
| Under medication | 80 | 0.1 |
| Infirmities of age | 592 | 0.5 |
| Other | 360 | 0.3 |
| Total no. of drivers (condition stated) | 108,298 | |
| Condition not stated | 2,555 | |
| GRAND TOTAL | 110,853 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 72,499 | 67.9 |
| Female | 34,337 | 32.1 |
| Total no. of drivers (sex known) | 106,836 | |
| Sex not stated | 4,017 | |
| GRAND TOTAL | 110,853 | |

| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 1,064 | 1.0 |
| 16 | 4,786 | 4.6 |
| 17 | 6,023 | 5.7 |
| 18 | 6,293 | 6.0 |
| 19 | 5,538 | 5.3 |
| 20-24 | 20,597 | 19.6 |
| 25-34 | 24,073 | 22.9 |
| 35-44 | 12,038 | 11.5 |
| 45-54 | 9,010 | 8.6 |
| 55-64 | 7,816 | 7.4 |
| 65-74 | 5,002 | 4.8 |
| 75 & older | 2,780 | 2.6 |
| Total no. of drivers (age known) | 105,020 | |
| Age not stated | 5,833 | |
| GRAND TOTAL | 110,853 | |

Note: In 1981 motor vehicle accidents, 75.8 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts, 2.8 percent were wearing seat belts, and seat belt use was unknown or unreported for 21.4 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 71,312 | 62.7 |
| Turning left | 12,148 | 10.7 |
| Turning right | 4,966 | 4.4 |
| Backing | 3,520 | 3.1 |
| Stopped in traffic | 5,040 | 4.4 |
| Parked | 8,096 | 7.1 |
| Making U-turn | 321 | 7.6 |
| Passing | 1,402 | |
| Changing lanes | 1,496 | |
| Merging | 625 | |
| Parking | 315 | |
| Slowing-stopping | 2,441 | |
| Unattended moving vehicle | 177 | |
| Other | 1,833 | |
| Total no. of vehicles (action stated) | 113,692 | |
| Action not stated | 5,434 | |
| GRAND TOTAL | 119,126 | |

Note: Total number of vehicles includes parked vehicles involved in accidents.

| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 74,127 | 97.1 |
| Brakes | 541 | |
| Lights | 187 | |
| Steering | 131 | |
| Wipers | 28 | 2.9 |
| Tires | 501 | |
| Trailer hitch | 46 | |
| Other | 744 | |
| Total no. of vehicles (defect stated) | 76,305 | |
| No defect stated | 42,821 | |
| GRAND TOTAL | 119,126 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 803 | 1.2 |
| Daylight | 41,662 | 61.3 |
| Dusk | 2,449 | 3.6 |
| Darkness (road lighted) | 12,728 | 18.7 |
| Darkness (road unlighted) | 10,367 | 15.2 |
| Total no. of accidents (light stated) | 68,009 | |
| Light not stated | 254 | |
| GRAND TOTAL | 68,263 | |

Note: Figures indicate number of accidents involving all vehicles occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 43,546 | 63.8 |
| Cloudy | 15,685 | 23.0 |
| Fog | 790 | 1.2 |
| Mist | 1,635 | 2.4 |
| Rain | 4,073 | 6.0 |
| Sleet/hail | 330 | 0.5 |
| Snow | 2,990 | 4.4 |
| Strong wind | 1,107 | 1.6 |
| Other | 302 | 0.4 |

Note: Some accident reports listed more than one type of weather condition. However, the percentage listed for each weather condition is based on the total number of accidents for all types of vehicles.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 877 | 5.4 |
| Underpass/bridge support | 68 | 0.4 |
| Building | 519 | 3.2 |
| Culvert | 404 | 2.5 |
| Curb | 689 | 4.3 |
| Ditch | 4,119 | 25.4 |
| Island/raised median | 161 | 1.0 |
| Embankment/retaining wall | 478 | 3.0 |
| Fence | 1,149 | 7.1 |
| Guardrail | 659 | 4.1 |
| Light pole | 1,250 | 7.7 |
| Sign post | 1,038 | 6.4 |
| Tree or shrubbery | 1,021 | 6.3 |
| Utility pole | 1,511 | 9.3 |
| Other pole or support | 414 | 2.6 |
| Mailbox | 308 | 1.9 |
| Impact attenuator | 153 | 0.9 |
| Other | 1,372 | 8.5 |

13.6% of all vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 45,719 | 67.5 |
| Traffic signals | 8,818 | 13.0 |
| Stop sign | 9,488 | 14.0 |
| Yield sign | 822 | |
| No passing zone (marked) | 556 | |
| R.R. warning sign | 148 | |
| R.R. automatic signal | 118 | 5.4 |
| R.R. crossing gate | 42 | |
| Other | 1,977 | |
| Total no. of accidents (control stated) | 67,688 | |
| Control not stated | 575 | |
| GRAND TOTAL | 68,263 | |

# Iowa
# Accidents Involving

## Automobiles

**In 1981 there were:**

**348 automobile occupants killed**
**19,429 automobile occupants injured**
**58,595 accidents involving automobiles**
**355 fatal accidents involving automobiles**
**16,053 personal injury accidents involving automobiles**
**42,187 property damage accidents involving automobiles**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 2,889 | 3.5 |
| Improper passing | 906 | 1.1 |
| Left of center, not passing | 1,288 | 1.6 |
| Failure to yield | 9,827 | 12.0 |
| Wrong way, one-way road | 108 | 0.1 |
| Speed too fast | 3,875 | 4.7 |
| Drag racing | 21 | -- |
| Improper turn | 1,249 | 1.5 |
| Improper lane change | 1,147 | 1.4 |
| Following too close | 1,905 | 2.3 |
| Improper or no signal | 400 | 0.5 |
| Disregarded R.R. signal | 40 | -- |
| Disregarded warning signal | 80 | 0.1 |
| Reckless driving | 769 | 0.9 |
| Improper backing | 1,245 | 1.5 |
| Illegal or improper parking | 196 | 0.2 |
| Failure to have control | 10,046 | 12.3 |
| Lights not on | 111 | 0.1 |
| Inattentive/distracted | 4,338 | 5.3 |
| Confused/inexperienced | 1,855 | 2.3 |
| Vision obscured | 9,566 | 11.7 |
| Oversized vehicle | 47 | 0.1 |
| Other | 3,731 | 4.6 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 72,845 | 90.7 |
| Drinking - impaired | 2,838 | 3.5 |
| Drinking - not impaired | 2,520 | 3.1 |
| Drugs | 40 | 0.1 |
| Physical defect | 146 | 0.2 |
| Fatigued | 363 | 0.5 |
| Apparently asleep | 590 | 0.7 |
| Ill | 72 | 0.1 |
| Under medication | 66 | 0.1 |
| Infirmities of age | 541 | 0.7 |
| Other | 262 | 0.3 |
| Total no. of drivers (condition stated) | 80,283 | |
| Condition not stated | 1,601 | |
| GRAND TOTAL | 81,884 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 48,749 | 60.7 |
| Female | 31,510 | 39.3 |
| Total no. of drivers (sex known) | 80,259 | |
| Sex not stated | 1,625 | |
| GRAND TOTAL | 81,884 | |

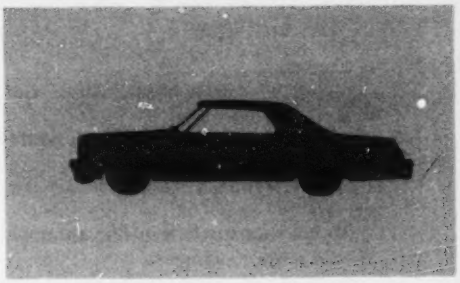
| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 521 | 0.7 |
| 16 | 3,921 | 5.0 |
| 17 | 5,011 | 6.4 |
| 18 | 5,163 | 6.5 |
| 19 | 4,422 | 5.6 |
| 20-24 | 15,407 | 19.5 |
| 25-34 | 16,975 | 21.5 |
| 35-44 | 8,404 | 10.6 |
| 45-54 | 6,420 | 8.1 |
| 55-64 | 5,906 | 7.5 |
| 65-74 | 4,248 | 5.4 |
| 75 & older | 2,577 | 3.3 |
| Total no. of drivers (age known) | 78,975 | |
| Age not stated | 2,909 | |
| GRAND TOTAL | 81,884 | |

Note: In 1981 automobile accidents, 74.9 percent of the automobile occupants who were killed or injured were not wearing seat belts, 2.9 percent were wearing seat belts, and seat belt use was unknown or unreported for 22.3 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 52,861 | 62.5 |
| Turning left | 9,318 | 11.0 |
| Turning right | 3,484 | 4.1 |
| Backing | 2,329 | 2.8 |
| Stopped in traffic | 4,032 | 4.8 |
| Parked | 6,410 | 7.6 |
| Making U-turn | 229 | 7.3 |
| Passing | 906 | |
| Changing lanes | 1,071 | |
| Merging | 481 | |
| Parking | 236 | |
| Slowing-stopping | 1,876 | |
| Unattended moving vehicle | 92 | |
| Other | 1,266 | |
| Total no. of vehicles (action stated) | 84,591 | |
| Action not stated | 3,795 | |
| GRAND TOTAL | 88,386 | |

Note: Total number of vehicles includes parked automobiles involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 54,151 | 97.7 |
| Brakes | 310 | |
| Lights | 84 | |
| Steering | 80 | |
| Wipers | 18 | 2.3 |
| Tires | 325 | |
| Trailer hitch | 8 | |
| Other | 433 | |
| Total no. of vehicles (defect stated) | 55,409 | |
| No defect stated | 32,977 | |
| GRAND TOTAL | 88,386 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 665 | 1.1 |
| Daylight | 36,444 | 62.4 |
| Dusk | 2,096 | 3.6 |
| Darkness (road lighted) | 11,316 | 19.4 |
| Darkness (road unlighted) | 7,845 | 13.4 |
| Total no. of accidents (light stated) | 58,366 | |
| Light not stated | 229 | |
| GRAND TOTAL | 58,595 | |

Note: Figures indicate number of accidents involving automobiles occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 37,377 | 63.8 |
| Cloudy | 13,414 | 22.9 |
| Fog | 613 | 1.0 |
| Mist | 1,415 | 2.4 |
| Rain | 3,563 | 6.1 |
| Sleet/hail | 290 | 0.5 |
| Snow | 2,625 | 4.5 |
| Strong wind | 852 | 1.5 |
| Other | 250 | 0.4 |

Note: Some accident reports listed more than one type of weather condition. However, the percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 592 | 5.1 |
| Underpass/bridge support | 39 | 0.3 |
| Building | 398 | 3.4 |
| Culvert | 305 | 2.6 |
| Curb | 459 | 3.9 |
| Ditch | 2,771 | 23.8 |
| Island/raised median | 118 | 1.0 |
| Embankment/retaining wall | 359 | 3.1 |
| Fence | 810 | 7.0 |
| Guardrail | 491 | 4.2 |
| Light pole | 941 | 8.1 |
| Sign post | 795 | 6.8 |
| Tree or shrubbery | 778 | 6.7 |
| Utility pole | 1,159 | 10.0 |
| Other pole or support | 291 | 2.5 |
| Mailbox | 226 | 1.9 |
| Impact attenuator | 119 | 1.0 |
| Other | 980 | 8.4 |

13.2% of automobiles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 39,480 | 68.0 |
| Traffic signals | 8,055 | 13.9 |
| Stop sign | 7,822 | 13.5 |
| Yield sign | 666 | |
| No passing zone (marked) | 412 | |
| R.R. warning sign | 103 | 4.7 |
| R.R. automatic signal | 77 | |
| R.R. crossing gate | 28 | |
| Other | 1,427 | |
| Total no. of accidents (control stated) | 58,070 | |
| Control not stated | 525 | |
| GRAND TOTAL | 58,595 | |

# Iowa
# Accidents Involving

## Automobiles/Pickups With Trailers Or Campers

**In 1981 there were:**

- **5 occupants of automobiles/pickups with trailers or campers killed**
- **140 occupants of automobiles/pickups with trailers or campers injured**
- **830 accidents involving automobiles/pickups with trailers or campers**
  - **4 fatal accidents involving automobiles/pickups with trailers or campers**
  - **198 personal injury accidents involving automobiles/pickups with trailers or campers**
  - **628 property damage accidents involving automobiles/pickups with trailers or campers**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 25 | 3.1 |
| Improper passing | 11 | 1.4 |
| Left of center, not passing | 6 | 0.7 |
| Failure to yield | 77 | 9.5 |
| Wrong way, one-way road | 0 | – |
| Speed too fast | 43 | 5.3 |
| Drag racing | 0 | – |
| Improper turn | 11 | 1.4 |
| Improper lane change | 14 | 1.7 |
| Following too close | 24 | 3.0 |
| Improper or no signal | 8 | 1.0 |
| Disregarded R.R. signal | 0 | – |
| Disregarded warning signal | 2 | 0.2 |
| Reckless driving | 4 | 0.5 |
| Improper backing | 10 | 1.2 |
| Illegal or improper parking | 2 | 0.2 |
| Failure to have control | 94 | 11.6 |
| Lights not on | 0 | – |
| Inattentive/distracted | 35 | 4.3 |
| Confused/inexperienced | 24 | 3.0 |
| Vision obscured | 100 | 12.3 |
| Oversized vehicle | 5 | 0.6 |
| Other | 67 | 8.3 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 754 | 93.9 |
| Drinking - impaired | 13 | 1.6 |
| Drinking - not impaired | 14 | 1.7 |
| Drugs | 0 | – |
| Physical defect | 3 | 0.4 |
| Fatigued | 3 | 0.4 |
| Apparently asleep | 11 | 1.4 |
| Ill | 1 | 0.1 |
| Under medication | 0 | – |
| Infirmities of age | 3 | 0.4 |
| Other | 1 | 0.1 |
| Total no. of drivers (condition stated) | 803 | |
| Condition not stated | 9 | |
| GRAND TOTAL | 812 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 693 | 86.5 |
| Female | 108 | 13.5 |
| Total no. of drivers (sex known) | 801 | |
| Sex not stated | 11 | |
| GRAND TOTAL | 812 | |

| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 2 | 0.3 |
| 16 | 21 | 2.7 |
| 17 | 25 | 3.2 |
| 18 | 23 | 2.9 |
| 19 | 29 | 3.7 |
| 20-24 | 118 | 15.0 |
| 25-34 | 221 | 28.1 |
| 35-44 | 128 | 16.3 |
| 45-54 | 97 | 12.3 |
| 55-64 | 67 | 8.5 |
| 65-74 | 42 | 5.3 |
| 75 & older | 13 | 1.7 |
| Total no. of drivers (age known) | 786 | |
| Age not stated | 26 | |
| GRAND TOTAL | 812 | |

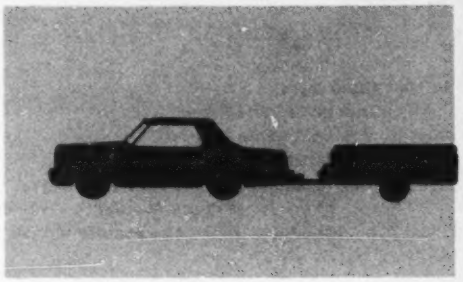
Note: In 1981 automobile/pickup with trailer or camper accidents, 60.7 percent of the automobile/pickup with trailer or camper occupants who were killed or injured were not wearing seat belts, 14.5 percent were wearing seat belts, and seat belt use was unknown or unreported for 24.8 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 542 | 65.4 |
| Turning left | 88 | 10.6 |
| Turning right | 35 | 4.2 |
| Backing | 18 | 2.2 |
| Stopped in traffic | 26 | 3.1 |
| Parked | 45 | 5.4 |
| Making U-turn | 2 | 9.0 |
| Passing | 17 | |
| Changing lanes | 12 | |
| Merging | 2 | |
| Parking | 1 | |
| Slowing-stopping | 25 | |
| Unattended moving vehicle | 1 | |
| Other | 15 | |
| Total no. of vehicles (action stated) | 829 | |
| Action not stated | 29 | |
| GRAND TOTAL | 858 | |

Note: Total number of vehicles includes parked automobiles/pickups with trailers or campers.

# Automobiles/Pickups With Trailers or Campers



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 527 | 92.1 |
| Brakes | 5 | |
| Lights | 5 | |
| Steering | 0 | |
| Wipers | 0 | 7.9 |
| Tires | 5 | |
| Trailer hitch | 12 | |
| Other | 18 | |
| Total no. of vehicles (defect stated) | 572 | |
| No defect stated | 286 | |
| GRAND TOTAL | 858 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 11 | 1.3 |
| Daylight | 603 | 72.7 |
| Dusk | 23 | 2.8 |
| Darkness (road lighted) | 102 | 12.3 |
| Darkness (road unlighted) | 90 | 10.9 |
| Total no. of accidents (light stated) | 829 | |
| Light not stated | 1 | |
| GRAND TOTAL | 830 | |

Note: Figures indicate number of accidents involving automobiles/pickups with trailers or campers occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 535 | 64.5 |
| Cloudy | 183 | 22.0 |
| Fog | 14 | 1.7 |
| Mist | 16 | 1.9 |
| Rain | 59 | 7.1 |
| Sleet/hail | 1 | 0.1 |
| Snow | 35 | 4.2 |
| Strong wind | 18 | 2.2 |
| Other | 2 | 0.2 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 14 | 10.4 |
| Underpass/bridge support | 0 | – |
| Building | 1 | 0.7 |
| Culvert | 2 | 1.5 |
| Curb | 8 | 6.0 |
| Ditch | 43 | 32.1 |
| Island/raised median | 0 | – |
| Embankment/retaining wall | 4 | 3.0 |
| Fence | 10 | 7.5 |
| Guardrail | 6 | 4.5 |
| Light pole | 12 | 9.0 |
| Sign post | 7 | 5.2 |
| Tree or shrubbery | 7 | 5.2 |
| Utility pole | 8 | 6.0 |
| Other pole or support | 3 | 2.2 |
| Mailbox | 0 | – |
| Impact attenuator | 0 | – |
| Other | 9 | 6.7 |

15.3% of automobiles or pickups with trailers or campers involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 616 | 74.8 |
| Traffic signals | 101 | 12.3 |
| Stop sign | 62 | 7.5 |
| Yield sign | 5 | |
| No passing zone (marked) | 9 | |
| R.R. warning sign | 0 | 5.5 |
| R.R. automatic signal | 1 | |
| R.R. crossing gate | 0 | |
| Other | 30 | |
| Total no. of accidents (control stated) | 824 | |
| Control not stated | 6 | |
| GRAND TOTAL | 830 | |

# Iowa
# Accidents Involving

# Buses

**In 1981 there were:**
**0 bus occupants killed**
**104 bus occupants injured**
**279 accidents involving buses**
**0 fatal accidents involving buses**
**56 personal injury accidents involving buses**
**223 property damage accidents involving buses**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 3 | 1.1 |
| Improper passing | 6 | 2.2 |
| Left of center, not passing | 4 | 1.5 |
| Failure to yield | 18 | 6.6 |
| Wrong way, one-way road | 0 | – |
| Speed too fast | 9 | 3.3 |
| Drag racing | 0 | – |
| Improper turn | 4 | 1.5 |
| Improper lane change | 2 | 0.7 |
| Following too close | 6 | 2.2 |
| Improper or no signal | 2 | 0.7 |
| Disregarded R.R. signal | 1 | 0.4 |
| Disregarded warning signal | 0 | – |
| Reckless driving | 0 | – |
| Improper backing | 8 | 2.9 |
| Illegal or improper parking | 0 | – |
| Failure to have control | 12 | 4.4 |
| Lights not on | 2 | 0.7 |
| Inattentive/distracted | 10 | 3.7 |
| Confused/inexperienced | 3 | 1.1 |
| Vision obscured | 27 | 9.9 |
| Oversized vehicle | 3 | 1.1 |
| Other | 23 | 8.5 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 268 | 99.3 |
| Drinking - impaired | 0 | – |
| Drinking - not impaired | 0 | – |
| Drugs | 0 | – |
| Physical defect | 0 | – |
| Fatigued | 1 | 0.4 |
| Apparently asleep | 1 | 0.4 |
| Ill | 0 | – |
| Under medication | 0 | – |
| Infirmities of age | 0 | – |
| Other | 0 | – |
| Total no. of drivers (condition stated) | 270 | |
| Condition not stated | 2 | |
| GRAND TOTAL | 272 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 211 | 78.7 |
| Female | 57 | 21.3 |
| Total no. of drivers (sex known) | 268 | |
| Sex not stated | 4 | |
| GRAND TOTAL | 272 | |

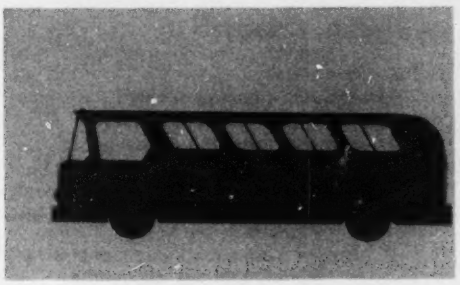
| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 0 | – |
| 16 | 1 | 0.4 |
| 17 | 2 | 0.8 |
| 18 | 1 | 0.4 |
| 19 | 4 | 1.5 |
| 20-24 | 34 | 13.0 |
| 25-34 | 77 | 29.4 |
| 35-44 | 51 | 19.5 |
| 45-54 | 41 | 15.7 |
| 55-64 | 40 | 15.3 |
| 65-74 | 11 | 4.2 |
| 75 & older | 0 | – |
| Total no. of drivers (age known) | 262 | |
| Age not stated | 10 | |
| GRAND TOTAL | 272 | |

Note: In 1981 bus accidents, 93.3 percent of the bus occupants who were injured were not wearing seat belts, 1.0 percent were wearing seat belts, and seat belt use was unknown or unreported for 5.8 percent of those injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 156 | 56.1 |
| Turning left | 29 | 10.4 |
| Turning right | 18 | 6.5 |
| Backing | 12 | 4.3 |
| Stopped in traffic | 21 | 7.6 |
| Parked | 12 | 4.3 |
| Making U-turn | 0 | 10.8 |
| Passing | 4 | |
| Changing lanes | 3 | |
| Merging | 4 | |
| Parking | 1 | |
| Slowing-stopping | 10 | |
| Unattended moving vehicle | 0 | |
| Other | 8 | |
| Total no. of vehicles (action stated) | 278 | |
| Action not stated | 6 | |
| GRAND TOTAL | 284 | |

Note: Total number of vehicles includes parked buses involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 189 | 96.4 |
| Brakes | 3 | |
| Lights | 0 | |
| Steering | 0 | |
| Wipers | 0 | 3.6 |
| Tires | 1 | |
| Trailer hitch | 0 | |
| Other | 3 | |
| Total no. of vehicles (defect stated) | 196 | |
| No defect stated | 88 | |
| GRAND TOTAL | 284 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 4 | 1.4 |
| Daylight | 237 | 85.0 |
| Dusk | 8 | 2.9 |
| Darkness (road lighted) | 21 | 7.5 |
| Darkness (road unlighted) | 9 | 3.2 |
| Total no. of accidents (light stated) | 279 | |
| Light not stated | 0 | |
| GRAND TOTAL | 279 | |

Note: Figures indicate number of accidents involving buses occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 186 | 66.7 |
| Cloudy | 56 | 20.1 |
| Fog | 3 | 1.1 |
| Mist | 8 | 2.9 |
| Rain | 12 | 4.3 |
| Sleet/hail | 2 | 0.7 |
| Snow | 22 | 7.9 |
| Strong wind | 8 | 2.9 |
| Other | 3 | 1.1 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 3 | 17.6 |
| Underpass/bridge support | 0 | - |
| Building | 0 | - |
| Culvert | 0 | - |
| Curb | 1 | 5.9 |
| Ditch | 2 | 11.8 |
| Island/raised median | 0 | - |
| Embankment/retaining wall | 0 | - |
| Fence | 2 | 11.8 |
| Guardrail | 0 | - |
| Light pole | 1 | 5.9 |
| Sign post | 1 | 5.9 |
| Tree or shrubbery | 1 | 5.9 |
| Utility pole | 2 | 11.8 |
| Other pole or support | 1 | 5.9 |
| Mailbox | 0 | - |
| Impact attenuator | 0 | - |
| Other | 3 | 17.6 |

6.0% of buses involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 183 | 65.8 |
| Traffic signals | 57 | 20.5 |
| Stop sign | 30 | 10.8 |
| Yield sign | 2 | |
| No passing zone (marked) | 1 | |
| R.R. warning sign | 1 | 2.9 |
| R.R. automatic signal | 3 | |
| R.R. crossing gate | 0 | |
| Other | 1 | |
| Total no. of accidents (control stated) | 278 | |
| Control not stated | 1 | |
| GRAND TOTAL | 279 | |

# Iowa
# Accidents Involving

## School Buses

**In 1981 there were:**

**1 school bus occupant killed**
**80 school bus occupants injured**
**273 accidents involving school buses**
**3 fatal accidents involving school buses**
**56 personal injury accidents involving school buses**
**214 property damage accidents involving school buses**

**2 persons were killed in school bus accidents. Both persons were not school bus occupants.**

### The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 3 | 1.1 |
| Improper passing | 1 | 0.4 |
| Left of center, not passing | 2 | 0.7 |
| Failure to yield | 27 | 10.0 |
| Wrong way, one-way road | 0 | -- |
| Speed too fast | 6 | 2.2 |
| Drag racing | 0 | -- |
| Improper turn | 10 | 3.7 |
| Improper lane change | 6 | 2.2 |
| Following too close | 1 | 0.4 |
| Improper or no signal | 3 | 1.1 |
| Disregarded R.R. signal | 0 | -- |
| Disregarded warning signal | 0 | -- |
| Reckless driving | 0 | -- |
| Improper backing | 15 | 5.6 |
| Illegal or improper parking | 0 | -- |
| Failure to have control | 12 | 4.5 |
| Lights not on | 0 | -- |
| Inattentive/distracted | 13 | 4.8 |
| Confused/inexperienced | 5 | 1.9 |
| Vision obscured | 42 | 15.6 |
| Oversized vehicle | 2 | 0.7 |
| Other | 19 | 7.1 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 262 | 98.9 |
| Drinking - impaired | 0 | -- |
| Drinking - not impaired | 0 | -- |
| Drugs | 0 | -- |
| Physical defect | 0 | -- |
| Apparently asleep | 1 | 0.4 |
| Ill | 0 | -- |
| Under medication | 0 | -- |
| Infirmities of age | 0 | -- |
| Other | 2 | 0.8 |
| Total no. of drivers (condition stated) | 265 | |
| Condition not stated | 4 | |
| GRAND TOTAL | 269 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 168 | 62.7 |
| Female | 100 | 37.3 |
| Total no. of drivers (sex known) | 268 | |
| Sex not stated | 1 | |
| GRAND TOTAL | 269 | |

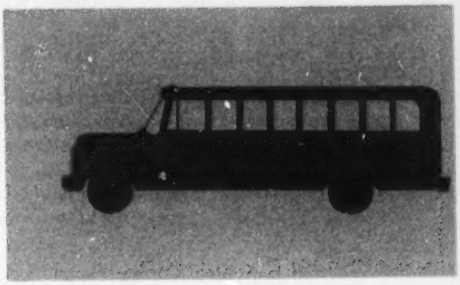
| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 0 | -- |
| 16 | 0 | -- |
| 17 | 1 | 0.4 |
| 18 | 1 | 0.4 |
| 19 | 4 | 1.5 |
| 20-24 | 42 | 15.9 |
| 25-34 | 50 | 18.9 |
| 35-44 | 61 | 23.1 |
| 45-54 | 53 | 20.1 |
| 55-64 | 39 | 14.8 |
| 65-74 | 13 | 4.9 |
| 75 & older | 0 | -- |
| Total no. of drivers (age known) | 264 | |
| Age not stated | 5 | |
| GRAND TOTAL | 269 | |

Note: In 1981 school bus accidents, 65.4 percent of the school bus occupants who were killed or injured were not wearing seat belts, 3.7 percent were wearing seat belts and seat belt use was unknown or unreported for 30.9 percent of those killed or injured.

### The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 130 | 48.5 |
| Turning left | 30 | 11.2 |
| Turning right | 24 | 9.0 |
| Backing | 22 | 8.2 |
| Stopped in traffic | 25 | 9.3 |
| Parked | 5 | 1.9 |
| Making U-turn | 0 | |
| Passing | 1 | |
| Changing lanes | 6 | |
| Merging | 1 | 11.9 |
| Parking | 3 | |
| Slowing-stopping | 8 | |
| Unattended moving vehicle | 3 | |
| Other | 10 | |
| Total no. of vehicles (action stated) | 268 | |
| Action not stated | 9 | |
| GRAND TOTAL | 277 | |

Note: Total number of vehicles includes parked school buses involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 168 | 93.9 |
| Brakes | 3 | |
| Lights | 3 | |
| Steering | 1 | |
| Wipers | 0 | 6.1 |
| Tires | 0 | |
| Trailer hitch | 1 | |
| Other | 3 | |
| Total no. of vehicles (defect stated) | 179 | |
| No defect stated | 98 | |
| GRAND TOTAL | 277 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 1 | 0.4 |
| Daylight | 249 | 91.2 |
| Dusk | 7 | 2.6 |
| Darkness (road lighted) | 9 | 3.3 |
| Darkness (road unlighted) | 7 | 2.6 |
| Total no. of accidents (light stated) | 273 | |
| Light not stated | 0 | |
| GRAND TOTAL | 273 | |

Note: Figures indicate number of accidents involving school buses occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 158 | 57.9 |
| Cloudy | 66 | 24.2 |
| Fog | 7 | 2.6 |
| Mist | 8 | 2.9 |
| Rain | 13 | 4.8 |
| Sleet/hail | 2 | 0.7 |
| Snow | 20 | 7.3 |
| Strong wind | 8 | 2.9 |
| Other | 1 | 0.4 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Objects | Percent |
|---|---|---|
| Bridge/overpass | 0 | -- |
| Underpass/bridge support | 0 | -- |
| Building | 1 | 5.9 |
| Culvert | 0 | -- |
| Curb | 0 | -- |
| Ditch | 4 | 23.5 |
| Island/raised median | 0 | -- |
| Embankment/retaining wall | 0 | -- |
| Fence | 3 | 17.6 |
| Guardrail | 2 | 11.8 |
| Light pole | 4 | 23.5 |
| Sign post | 1 | 5.9 |
| Tree or shrubbery | 1 | 5.9 |
| Utility pole | 0 | -- |
| Other pole or support | 1 | 5.9 |
| Mailbox | 0 | -- |
| Impact attenuator | 0 | -- |
| Other | 0 | -- |

6.1% of school buses involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 188 | 69.9 |
| Traffic signals | 28 | 10.4 |
| Stop sign | 31 | 11.5 |
| Yield sign | 3 | |
| No passing zone (marked) | 5 | |
| R.R. warning sign | 7 | 8.2 |
| R.R. automatic signal | 0 | |
| R.R. crossing gate | 0 | |
| Other | 7 | |
| Total no. of accidents (control stated) | 269 | |
| Control not stated | 4 | |
| GRAND TOTAL | 273 | |

# Iowa
# Accidents Involving

## Bicycles

**In 1981 there were:**

**12 bicycle riders killed in bicycle/motor vehicle accidents**
**624 bicycle riders injured in bicycle/motor vehicle accidents**
**659 accidents involving bicycles/motor vehicles**
**11 fatal accidents involving bicycles/motor vehicles**
**616 personal injury accidents involving bicycles/motor vehicles**
**32 property damage accidents involving bicycles/motor vehicles**

## The Driver Of Motor Vehicle Involved

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 9 | 1.4 |
| Improper passing | 4 | 0.6 |
| Left of center, not passing | 4 | 0.6 |
| Failure to yield | 78 | 11.9 |
| Wrong way, one-way road | 1 | 0.2 |
| Speed too fast | 6 | 0.9 |
| Drag racing | 1 | 0.2 |
| Improper turn | 5 | 0.8 |
| Improper lane change | 0 | -- |
| Following too close | 6 | 0.9 |
| Improper or no signal | 0 | -- |
| Disregarded R.R. signal | 0 | -- |
| Disregarded warning signal | 0 | -- |
| Reckless driving | 8 | 1.2 |
| Improper backing | 6 | 0.9 |
| Illegal or improper parking | 0 | -- |
| Failure to have control | 15 | 2.3 |
| Lights not on | 0 | -- |
| Inattentive/distracted | 22 | 3.4 |
| Confused/inexperienced | 10 | 1.5 |
| Vision obscured | 208 | 31.7 |
| Oversized vehicle | 0 | -- |
| Other | 24 | 3.7 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 623 | 97.0 |
| Drinking - impaired | 8 | 1.2 |
| Drinking - not impaired | 4 | 0.6 |
| Drugs | 0 | -- |
| Physical defect | 1 | 0.2 |
| Fatigued | 3 | 0.5 |
| Apparently asleep | 0 | -- |
| Ill | 0 | -- |
| Under medication | 0 | -- |
| Infirmities of age | 3 | 0.5 |
| Other | 0 | -- |
| Total no. of drivers (condition stated) | 642 | |
| Condition not stated | 14 | |
| GRAND TOTAL | 656 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 404 | 65.0 |
| Female | 218 | 35.0 |
| Total no. of drivers (sex known) | 622 | |
| Sex not stated | 34 | |
| GRAND TOTAL | 656 | |

| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 14 | 2.3 |
| 16 | 28 | 4.5 |
| 17 | 31 | 5.0 |
| 18 | 26 | 4.2 |
| 19 | 27 | 4.4 |
| 20-24 | 96 | 15.5 |
| 25-34 | 143 | 23.1 |
| 35-44 | 96 | 15.5 |
| 45-54 | 52 | 8.4 |
| 55-64 | 61 | 9.9 |
| 65-74 | 27 | 4.4 |
| 75 & older | 18 | 2.9 |
| Total no. of drivers (age known) | 619 | |
| Age not stated | 37 | |
| GRAND TOTAL | 656 | |

## The Motor Vehicle

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 449 | 69.4 |
| Turning left | 94 | 14.5 |
| Turning right | 37 | 5.7 |
| Backing | 31 | 4.8 |
| Stopped in traffic | 7 | 1.1 |
| Parked | 8 | 1.2 |
| Making U-turn | 1 | 3.2 |
| Passing | 12 | |
| Changing lanes | 0 | |
| Merging | 2 | |
| Parking | 0 | |
| Slowing-stopping | 3 | |
| Unattended moving vehicle | 0 | |
| Other | 3 | |
| Total no. of vehicles (action stated) | 647 | |
| Action not stated | 17 | |
| GRAND TOTAL | 664 | |

Note: The total number of vehicles includes parked motor vehicles involved in bicycle/motor vehicle accidents.

| Type of Motor Vehicle Involved in Collision | Number of Vehicles | Percent |
|---|---|---|
| Automobile | 496 | 77.5 |
| Automobile/pickup with trailer or camper | 4 | 0.6 |
| Bus | 2 | 0.3 |
| School bus | 2 | 0.3 |
| Moped | 13 | 2.0 |
| Motorcycle | 35 | 5.5 |
| Farm vehicle | 1 | 0.2 |
| Motor home | 0 | -- |
| Recreational vehicle | 3 | 0.5 |
| Panel/van/pickup | 80 | 12.5 |
| Straight truck | 1 | 0.2 |
| Tow/maintenance/ construction vehicle | 0 | -- |
| Truck tractor | 0 | -- |
| Truck tractor with trailer | 1 | 0.2 |
| Other | 2 | 0.3 |
| Total no. of vehicles (vehicle type stated) | 640 | |
| Type not stated | 24 | |
| GRAND TOTAL | 664 | |

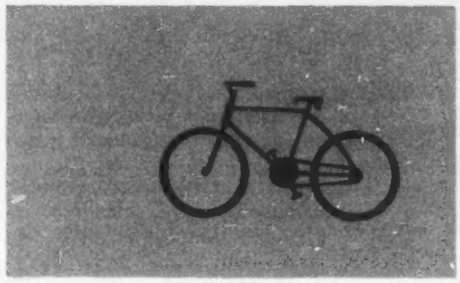
## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 2 | 0.3 |
| Daylight | 549 | 83.3 |
| Dusk | 35 | 5.3 |
| Darkness (road lighted) | 59 | 9.0 |
| Darkness (road unlighted) | 14 | 2.1 |
| Total no. of accidents (light stated) | 659 | |
| Light not stated | 0 | |
| GRAND TOTAL | 659 | |

Note: Figures indicate number of accidents involving bicycle/motor vehicle collisions occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 479 | 72.7 |
| Cloudy | 161 | 24.4 |
| Fog | 2 | 0.3 |
| Mist | 5 | 0.8 |
| Rain | 13 | 2.0 |
| Sleet/hail | 2 | 0.3 |
| Snow | 0 | -- |
| Strong wind | 3 | 0.5 |
| Other | 5 | 0.8 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.



| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 507 | 77.3 |
| Traffic signals | 58 | 8.8 |
| Stop sign | 78 | 11.9 |
| Yield sign | 5 | 2.0 |
| No passing zone (marked) | 2 | |
| R.R. warning sign | 0 | |
| R.R. automatic signal | 1 | |
| R.R. crossing gate | 0 | |
| Other | 5 | |
| Total no. of accidents (control stated) | 656 | |
| Control not stated | 3 | |
| GRAND TOTAL | 659 | |

## The Bicyclist

| Bicyclist Sex | Killed | Injured |
|---|---|---|
| Male | 8 | 429 |
| Female | 4 | 151 |
| Total no. of bicyclists (sex known) | 12 | 580 |
| Sex not stated | 0 | 44 |
| GRAND TOTAL | 12 | 624 |

| Bicyclist Age | Killed | Injured |
|---|---|---|
| 0-4 | 4 | 10 |
| 5-9 | 3 | 133 |
| 10-14 | 3 | 230 |
| 15-19 | 0 | 101 |
| 20-24 | 1 | 50 |
| 25-44 | 1 | 63 |
| 45-64 | 0 | 16 |
| 65 & older | 0 | 3 |
| Total no. of bicyclists (age known) | 12 | 606 |
| Age not stated | 0 | 18 |
| GRAND TOTAL | 12 | 624 |

# Iowa
# Accidents Involving

## Mopeds

**In 1981 there were:**

**5 moped operators or passengers killed**
**460 moped operators or passengers injured**
**506 accidents involving mopeds**
**5 fatal accidents involving mopeds**
**469 personal injury accidents involving mopeds**
**34 property damage accidents involving mopeds**

## The Operator

| Operator Action/ Contributing Circumstances | Number of Operators | Percent |
|---|---|---|
| Ran traffic control | 14 | 2.7 |
| Improper passing | 1 | 0.2 |
| Left of center, not passing | 7 | 1.4 |
| Failure to yield | 51 | 9.9 |
| Wrong way, one-way road | 0 | – |
| Speed too fast | 19 | 3.7 |
| Drag racing | 0 | – |
| Improper turn | 5 | 1.0 |
| Improper lane change | 2 | 0.4 |
| Following too close | 19 | 3.7 |
| Improper or no signal | 3 | 0.6 |
| Disregarded R.R. signal | 0 | – |
| Disregarded warning signal | 0 | – |
| Reckless driving | 4 | 0.8 |
| Improper backing | 0 | – |
| Illegal or improper parking | 1 | 0.2 |
| Failure to have control | 73 | 14.1 |
| Lights not on | 7 | 1.4 |
| Inattentive/distracted | 43 | 8.3 |
| Confused/inexperienced | 74 | 14.3 |
| Vision obscured | 48 | 9.3 |
| Oversized vehicle | 0 | – |
| Other | 32 | 6.2 |

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

| Operator Condition | Number of Operators | Percent |
|---|---|---|
| Apparently normal | 491 | 96.7 |
| Drinking - impaired | 7 | 1.4 |
| Drinking - not impaired | 2 | 0.4 |
| Drugs | 0 | – |
| Physical defect | 1 | 0.2 |
| Fatigued | 0 | – |
| Apparently asleep | 1 | 0.2 |
| Ill | 1 | 0.2 |
| Under medication | 0 | – |
| Infirmities of age | 2 | 0.4 |
| Other | 3 | 0.6 |
| Total no. of operators (condition stated) | 508 | |
| Condition not stated | 8 | |
| GRAND TOTAL | 516 | |

| Operator Sex | Number of Operators | Percent |
|---|---|---|
| Male | 356 | 69.9 |
| Female | 153 | 30.1 |
| Total no. of operators (sex known) | 509 | |
| Sex not stated | 7 | |
| GRAND TOTAL | 516 | |

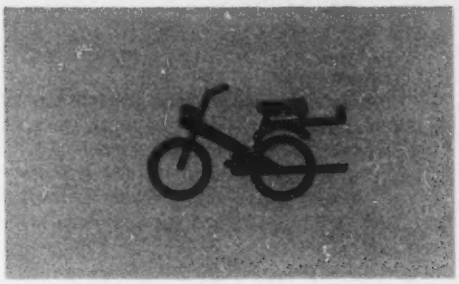
| Operator Age | Number of Operators | Percent |
|---|---|---|
| 15 & younger | 322 | 64.4 |
| 16 | 42 | 8.4 |
| 17 | 17 | 3.4 |
| 18 | 22 | 4.4 |
| 19 | 1 | 0.2 |
| 20-24 | 17 | 3.4 |
| 25-34 | 24 | 4.8 |
| 35-44 | 21 | 4.2 |
| 45-54 | 14 | 2.8 |
| 55-64 | 16 | 3.2 |
| 65-74 | 4 | 0.8 |
| 75 & older | 0 | – |
| Total no. of operators (age known) | 500 | |
| Age not stated | 16 | |
| GRAND TOTAL | 516 | |

Note: In 1981 moped accidents, 87.3 percent of the moped riders who were killed or injured were not wearing helmets, 4.5 percent were wearing helmets, and helmet use was unknown or unreported for 8.2 percent of the riders killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 384 | 74.7 |
| Turning left | 61 | 11.9 |
| Turning right | 32 | 6.2 |
| Backing | 1 | 0.2 |
| Stopped in traffic | 13 | 2.5 |
| Parked | 2 | 0.4 |
| Making U-turn | 4 | 4.1 |
| Passing | 1 | |
| Changing lanes | 3 | |
| Merging | 1 | |
| Parking | 0 | |
| Slowing-stopping | 4 | |
| Unattended moving vehicle | 0 | |
| Other | 8 | |
| Total no. of vehicles (action stated) | 514 | |
| Action not stated | 4 | |
| GRAND TOTAL | 518 | |

Note: Total number of vehicles includes parked mopeds involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 400 | 94.6 |
| Brakes | 9 | 5.4 |
| Lights | 5 | |
| Steering | 2 | |
| Tires | 1 | |
| Other | 6 | |
| Total no. of vehicles (defect stated) | 423 | |
| No defect stated | 95 | |
| GRAND TOTAL | 518 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 2 | 0.4 |
| Daylight | 396 | 78.0 |
| Dusk | 27 | 5.3 |
| Darkness (road lighted) | 68 | 13.4 |
| Darkness (road unlighted) | 15 | 3.0 |
| Total no. of accidents (light stated) | 508 | |
| Light not stated | 0 | |
| GRAND TOTAL | 508 | |

Note: Figures indicate number of accidents involving mopeds occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 384 | 75.6 |
| Cloudy | 106 | 20.9 |
| Fog | 2 | 0.4 |
| Mist | 3 | 0.6 |
| Rain | 13 | 2.6 |
| Sleet/hail | 0 | -- |
| Snow | 0 | -- |
| Strong wind | 6 | 1.2 |
| Other | 2 | 0.4 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 1 | 2.5 |
| Underpass/bridge support | 0 | -- |
| Building | 1 | 2.5 |
| Culvert | 0 | -- |
| Curb | 21 | 52.5 |
| Ditch | 2 | 5.0 |
| Island/raised median | 1 | 2.5 |
| Embankment/retaining wall | 1 | 2.5 |
| Fence | 0 | -- |
| Guardrail | 0 | -- |
| Light pole | 0 | -- |
| Sign post | 1 | 2.5 |
| Tree or shrubbery | 0 | -- |
| Utility pole | 3 | 7.5 |
| Other pole or support | 0 | -- |
| Mailbox | 1 | 2.5 |
| Impact attenuator | 0 | -- |
| Other | 8 | 20.0 |

7.7% of mopeds involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 411 | 81.1 |
| Traffic signals | 36 | 7.1 |
| Stop sign | 47 | 9.3 |
| Yield sign | 8 | 2.6 |
| No passing zone (marked) | 1 | |
| R.R. warning sign | 1 | |
| R.R. automatic signal | 0 | |
| R.R. crossing gate | 0 | |
| Other | 3 | |
| Total no. of accidents (control stated) | 507 | |
| Control not stated | 1 | |
| GRAND TOTAL | 508 | |

# Iowa
# Accidents Involving

# Motorcycles

**In 1981 there were:**
**74 motorcycle operators or passengers killed**
**2,661 motorcycle operators or passengers injured**
**2,950 accidents involving motorcycles**
**69 fatal accidents involving motorcycles**
**2,363 personal injury accidents involving motorcycles**
**518 property damage accidents involving motorcycles**

## The Operator

| Operator Action/ Contributing Circumstances | Number of Operators | Percent |
|---|---|---|
| Ran traffic control | 50 | 1.7 |
| Improper passing | 94 | 3.1 |
| Left of center, not passing | 43 | 1.4 |
| Failure to yield | 103 | 3.4 |
| Wrong way, one-way road | 6 | 0.2 |
| Speed too fast | 245 | 8.2 |
| Drag racing | 10 | 0.3 |
| Improper turn | 33 | 1.1 |
| Improper lane change | 16 | 0.5 |
| Following too close | 63 | 2.1 |
| Improper or no signal | 10 | 0.3 |
| Disregarded R.R. signal | 0 | – |
| Disregarded warning signal | 6 | 0.2 |
| Reckless driving | 48 | 1.6 |
| Improper backing | 1 | – |
| Illegal or improper parking | 3 | 0.1 |
| Failure to have control | 599 | 20.0 |
| Lights not on | 18 | 0.6 |
| Inattentive/distracted | 134 | 4.5 |
| Confused/inexperienced | 143 | 4.8 |
| Vision obscured | 240 | 8.0 |
| Oversized vehicle | 1 | – |
| Other | 170 | 5.7 |

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

| Operator Condition | Number of Operators | Percent |
|---|---|---|
| Apparently normal | 2,568 | 88.7 |
| Drinking - impaired | 141 | 4.9 |
| Drinking - not impaired | 157 | 5.4 |
| Drugs | 4 | 0.1 |
| Physical defect | 2 | 0.1 |
| Fatigued | 6 | 0.2 |
| Apparently asleep | 4 | 0.1 |
| Ill | 0 | – |
| Under medication | 3 | 0.1 |
| Infirmities of age | 0 | – |
| Other | 11 | 0.4 |
| Total no. of operators (condition stated) | 2,896 | |
| Condition not stated | 103 | |
| GRAND TOTAL | 2,999 | |

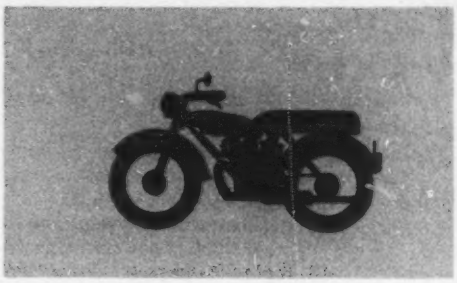
| Operator Sex | Number of Operators | Percent |
|---|---|---|
| Male | 2,864 | 96.4 |
| Female | 106 | 3.6 |
| Total no. of operators (sex known) | 2,970 | |
| Sex not stated | 29 | |
| GRAND TOTAL | 2,999 | |

| Operator Age | Number of Operators | Percent |
|---|---|---|
| 15 & younger | 95 | 3.2 |
| 16 | 144 | 4.9 |
| 17 | 222 | 7.5 |
| 18 | 273 | 9.3 |
| 19 | 219 | 7.4 |
| 20-24 | 895 | 30.4 |
| 25-34 | 733 | 24.9 |
| 35-44 | 234 | 7.9 |
| 45-54 | 87 | 3.0 |
| 55-64 | 30 | 1.0 |
| 65-74 | 13 | 0.4 |
| 75 & older | 4 | 0.1 |
| Total no. of operators (age known) | 2,949 | |
| Age not stated | 50 | |
| GRAND TOTAL | 2,999 | |

Note: In 1981 motorcycle accidents, 75.4 percent of the motorcycle operators and passengers who were killed or injured were not wearing helmets, 14.8 percent were wearing helmets, and helmet use was unknown or unreported for 9.8 percent of the riders killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 2,329 | 78.3 |
| Turning left | 210 | 7.1 |
| Turning right | 132 | 4.4 |
| Backing | 6 | 0.2 |
| Stopped in traffic | 33 | 1.1 |
| Parked | 36 | 1.2 |
| Making U-turn | 15 | 7.7 |
| Passing | 85 | |
| Changing lanes | 18 | |
| Merging | 9 | |
| Parking | 5 | |
| Slowing-stopping | 37 | |
| Unattended moving vehicle | 0 | |
| Other | 61 | |
| Total no. of vehicles (action stated) | 2,976 | |
| Action not stated | 59 | |
| GRAND TOTAL | 3,035 | |



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 2,213 | 95.6 |
| Brakes | 11 | |
| Lights | 15 | |
| Steering | 6 | 4.4 |
| Tires | 31 | |
| Other | 39 | |
| Total no. of vehicles (defect stated) | 2,315 | |
| No defect stated | 720 | |
| GRAND TOTAL | 3,035 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 25 | 0.9 |
| Daylight | 1,931 | 65.5 |
| Dusk | 123 | 4.2 |
| Darkness (road lighted) | 548 | 18.6 |
| Darkness (road unlighted) | 322 | 10.9 |
| Total no. of accidents (light stated) | 2,949 | |
| Light not stated | 1 | |
| GRAND TOTAL | 2,950 | |

Note: Figures indicate number of accidents involving motorcycles occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 2,175 | 73.7 |
| Cloudy | 615 | 20.8 |
| Fog | 14 | 0.5 |
| Mist | 29 | 1.0 |
| Rain | 92 | 3.1 |
| Sleet/hail | 2 | 0.1 |
| Snow | 2 | 0.1 |
| Strong wind | 35 | 1.2 |
| Other | 18 | 0.6 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 8 | 1.6 |
| Underpass/bridge support | 0 | – |
| Building | 6 | 1.2 |
| Culvert | 11 | 2.2 |
| Curb | 117 | 23.5 |
| Ditch | 171 | 34.4 |
| Island/raised median | 17 | 3.4 |
| Embankment/retaining wall | 7 | 1.4 |
| Fence | 25 | 5.0 |
| Guardrail | 11 | 2.2 |
| Light pole | 6 | 1.2 |
| Sign post | 15 | 3.0 |
| Tree or shrubbery | 18 | 3.6 |
| Utility pole | 12 | 2.4 |
| Other pole or support | 14 | 2.8 |
| Mailbox | 4 | 0.8 |
| Impact attenuator | 8 | 1.6 |
| Other | 47 | 9.5 |

16.4% of motorcycles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 2,333 | 79.4 |
| Traffic signals | 288 | 9.8 |
| Stop sign | 140 | 4.8 |
| Yield sign | 23 | |
| No passing zone (marked) | 29 | |
| R.R. warning sign | 5 | |
| R.R. automatic signal | 3 | 6.1 |
| R.R. crossing gate | 1 | |
| Other | 118 | |
| Total no. of accidents (control stated) | 2,940 | |
| Control not stated | 10 | |
| GRAND TOTAL | 2,950 | |

# Iowa
# Accidents Involving

# Farm
# Vehicles

**In 1981 there were:**

**10 farm vehicle occupants killed**
**54 farm vehicle occupants injured**
**406 accidents involving farm vehicles**
**13 fatal accidents involving farm vehicles**
**131 personal injury accidents involving farm vehicles**
**262 property damage accidents involving farm vehicles**

**13 persons were killed in farm vehicle accidents. Of this number, 3 (23.1 percent) were not farm vehicle occupants.**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 3 | 0.8 |
| Improper passing | 4 | 1.0 |
| Left of center, not passing | 8 | 2.0 |
| Failure to yield | 50 | 12.6 |
| Wrong way, one-way road | 0 | -- |
| Speed too fast | 3 | 0.8 |
| Drag racing | 0 | -- |
| Improper turn | 12 | 3.0 |
| Improper lane change | 3 | 0.8 |
| Following too close | 2 | 0.5 |
| Improper or no signal | 26 | 6.6 |
| Disregarded R.R. signal | 2 | 0.5 |
| Disregarded warning signal | 0 | -- |
| Reckless driving | 2 | 0.5 |
| Improper backing | 2 | 0.5 |
| Illegal or improper parking | 1 | 0.3 |
| Failure to have control | 13 | 3.3 |
| Lights not on | 0 | -- |
| Inattentive/distracted | 16 | 4.0 |
| Confused/inexperienced | 10 | 2.5 |
| Vision obscured | 62 | 15.7 |
| Oversized vehicle | 13 | 3.3 |
| Other | 49 | 12.4 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 383 | 98.0 |
| Drinking - impaired | 1 | 0.3 |
| Drinking - not impaired | 3 | 0.8 |
| Drugs | 0 | -- |
| Physical defect | 0 | -- |
| Fatigued | 0 | -- |
| Apparently asleep | 0 | -- |
| Ill | 0 | -- |
| Under medication | 0 | -- |
| Infirmities of age | 2 | 0.5 |
| Other | 2 | 0.5 |
| Total no. of drivers (condition stated) | 391 | |
| Condition not stated | 5 | |
| GRAND TOTAL | 396 | |

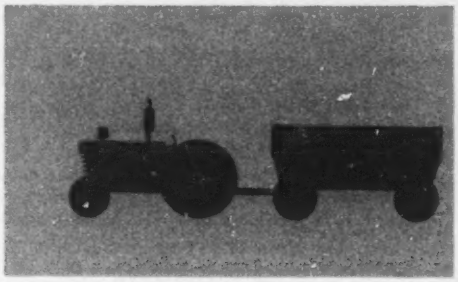
| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 377 | 97.4 |
| Female | 10 | 2.6 |
| Total no. of drivers (sex known) | 387 | |
| Sex not stated | 9 | |
| GRAND TOTAL | 396 | |

| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 22 | 5.7 |
| 16 | 5 | 1.3 |
| 17 | 14 | 3.6 |
| 18 | 12 | 3.1 |
| 19 | 18 | 4.7 |
| 20-24 | 66 | 17.1 |
| 25-34 | 87 | 22.6 |
| 35-44 | 45 | 11.7 |
| 45-54 | 43 | 11.2 |
| 55-64 | 40 | 10.4 |
| 65-74 | 24 | 6.2 |
| 75 & older | 9 | 2.3 |
| Total no. of drivers (age known) | 385 | |
| Age not stated | 11 | |
| GRAND TOTAL | 396 | |

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 212 | 52.4 |
| Turning left | 141 | 34.8 |
| Turning right | 11 | 2.7 |
| Backing | 4 | 1.0 |
| Stopped in traffic | 6 | 1.5 |
| Parked | 11 | 2.7 |
| Making U-turn | 3 | |
| Passing | 5 | |
| Changing lanes | 0 | |
| Merging | 1 | 4.9 |
| Parking | 0 | |
| Slowing-stopping | 1 | |
| Unattended moving vehicle | 3 | |
| Other | 7 | |
| Total no. of vehicles (action stated) | 405 | |
| Action not stated | 5 | |
| GRAND TOTAL | 410 | |

Note: Total number of vehicles includes parked farm vehicles involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 286 | 90.5 |
| Brakes | 5 | |
| Lights | 6 | |
| Steering | 3 | |
| Wipers | 0 | 9.5 |
| Tires | 6 | |
| Trailer hitch | 1 | |
| Other | 9 | |
| Total no. of vehicles (defect stated) | 316 | |
| No defect stated | 94 | |
| GRAND TOTAL | 410 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 2 | 0.5 |
| Daylight | 326 | 80.3 |
| Dusk | 15 | 3.7 |
| Darkness (road lighted) | 14 | 3.5 |
| Darkness (road unlighted) | 49 | 12.1 |
| Total no. of accidents (light stated) | 406 | |
| Light not stated | 0 | |
| GRAND TOTAL | 406 | |

Note: Figures indicate number of accidents involving farm vehicles occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 311 | 76.6 |
| Cloudy | 79 | 19.5 |
| Fog | 1 | 0.2 |
| Mist | 3 | 0.7 |
| Rain | 8 | 2.0 |
| Sleet/hail | 1 | 0.2 |
| Snow | 2 | 0.5 |
| Strong wind | 9 | 2.2 |
| Other | 0 | - |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 4 | 10.0 |
| Underpass/bridge support | 0 | - |
| Building | 0 | - |
| Culvert | 1 | 2.5 |
| Curb | 1 | 2.5 |
| Ditch | 21 | 52.5 |
| Island/raised median | 0 | - |
| Embankment/retaining wall | 0 | - |
| Fence | 3 | 7.5 |
| Guardrail | 1 | 2.5 |
| Light pole | 2 | 5.0 |
| Sign post | 0 | - |
| Tree or shrubbery | 1 | 2.5 |
| Utility pole | 2 | 5.0 |
| Other pole or support | 0 | - |
| Mailbox | 1 | 2.5 |
| Impact attenuator | 0 | - |
| Other | 3 | 7.5 |

9.8% of farm vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 359 | 88.6 |
| Traffic signals | 8 | 2.0 |
| Stop sign | 17 | 4.2 |
| Yield sign | 0 | |
| No passing zone (marked) | 11 | |
| R.R. warning sign | 2 | 5.2 |
| R.R. automatic signal | 3 | |
| R.R. crossing gate | 0 | |
| Other | 5 | |
| Total no. of accidents (control stated) | 405 | |
| Control not stated | 1 | |
| GRAND TOTAL | 406 | |

# Iowa
# Accidents Involving

## Motor Homes

**In 1981 there were:**

**0 motor home occupants killed**
**6 motor home occupants injured**
**81 accidents involving motor homes**
**1 fatal accident involving a motor home**
**11 personal injury accidents involving motor homes**
**69 property damage accidents involving motor homes**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 2 | 2.8 |
| Improper passing | 2 | 2.8 |
| Left of center, not passing | 0 | -- |
| Failure to yield | 6 | 8.3 |
| Wrong way, one-way road | 0 | -- |
| Speed too fast | 2 | 2.8 |
| Drag racing | 0 | -- |
| Improper turn | 4 | 5.6 |
| Improper lane change | 1 | 1.4 |
| Following too close | 0 | -- |
| Improper or no signal | 0 | -- |
| Disregarded R.R. signal | 1 | 1.4 |
| Disregarded warning signal | 1 | 1.4 |
| Reckless driving | 0 | -- |
| Improper backing | 0 | -- |
| Illegal or improper parking | 0 | -- |
| Failure to have control | 7 | 9.7 |
| Lights not on | 0 | -- |
| Inattentive/distracted | 1 | 1.4 |
| Confused/inexperienced | 3 | 4.2 |
| Vision obscured | 11 | 15.3 |
| Oversized vehicle | 1 | 1.4 |
| Other | 3 | 4.2 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 68 | 94.4 |
| Drinking - impaired | 0 | -- |
| Drinking - not impaired | 1 | 1.4 |
| Drugs | 0 | -- |
| Physical defect | 2 | 2.8 |
| Fatigued | 0 | -- |
| Apparently asleep | 1 | 1.4 |
| Ill | 0 | -- |
| Under medication | 0 | -- |
| Infirmities of age | 0 | -- |
| Other | 0 | -- |
| Total no. of drivers (condition stated) | 72 | |
| Condition not stated | 0 | |
| GRAND TOTAL | 72 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 61 | 85.9 |
| Female | 10 | 14.1 |
| Total no. of drivers (sex known) | 71 | |
| Sex not stated | 1 | |
| GRAND TOTAL | 72 | |

| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 0 | -- |
| 16 | 0 | -- |
| 17 | 0 | -- |
| 18 | 1 | 1.4 |
| 19 | 0 | -- |
| 20-24 | 2 | 2.9 |
| 25-34 | 5 | 7.1 |
| 35-44 | 14 | 20.0 |
| 45-54 | 17 | 24.3 |
| 55-64 | 16 | 22.9 |
| 65-74 | 11 | 15.7 |
| 75 & older | 4 | 5.7 |
| Total no. of drivers (age known) | 70 | |
| Age not stated | 2 | |
| GRAND TOTAL | 72 | |

Note: In 1981 motor home accidents, 83.3 percent of the motor home occupants who were injured were not wearing seat belts, none were wearing seat belts, and seat belt use was unknown or unreported for 16.7 percent of those injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 50 | 62.5 |
| Turning left | 7 | 8.8 |
| Turning right | 1 | 1.3 |
| Backing | 2 | 2.5 |
| Stopped in traffic | 1 | 1.3 |
| Parked | 10 | 12.5 |
| Making U-turn | 1 | 11.3 |
| Passing | 4 | |
| Changing lanes | 1 | |
| Merging | 2 | |
| Parking | 0 | |
| Slowing-stopping | 1 | |
| Unattended moving vehicle | 0 | |
| Other | 0 | |
| Total no. of vehicles (action stated) | 80 | |
| Action not stated | 2 | |
| GRAND TOTAL | 82 | |

Note: Total number of vehicles includes parked motor homes involved in accidents.

| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 50 | 92.6 |
| Brakes | 1 | |
| Lights | 0 | |
| Steering | 0 | |
| Wipers | 0 | 7.4 |
| Tires | 0 | |
| Trailer hitch | 0 | |
| Other | 3 | |
| Total no. of vehicles (defect stated) | 54 | |
| No defect stated | 28 | |
| GRAND TOTAL | 82 | |

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 3 | 20.0 |
| Underpass/bridge support | 1 | 6.7 |
| Building | 0 | -- |
| Culvert | 0 | -- |
| Curb | 0 | -- |
| Ditch | 3 | 20.0 |
| Island/raised median | 0 | -- |
| Embankment/retaining wall | 0 | -- |
| Fence | 1 | 6.7 |
| Guardrail | 1 | 6.7 |
| Light pole | 0 | -- |
| Sign post | 0 | -- |
| Tree or shrubbery | 1 | 6.7 |
| Utility pole | 0 | -- |
| Other pole or support | 1 | 6.7 |
| Mailbox | 0 | -- |
| Impact attenuator | 0 | -- |
| Other | 4 | 26.7 |

18.3% of motor homes involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 1 | 1.3 |
| Daylight | 57 | 71.3 |
| Dusk | 4 | 5.0 |
| Darkness (road lighted) | 8 | 10.0 |
| Darkness (road unlighted) | 10 | 12.5 |
| Total no. of accidents (light stated) | 80 | |
| Light not stated | 1 | |
| GRAND TOTAL | 81 | |

Note: Figures indicate number of accidents involving motor homes occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 49 | 60.5 |
| Cloudy | 24 | 29.6 |
| Fog | 2 | 2.5 |
| Mist | 2 | 2.5 |
| Rain | 4 | 4.9 |
| Sleet/hail | 0 | -- |
| Snow | 2 | 2.5 |
| Strong wind | 1 | 1.2 |
| Other | 1 | 1.2 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 63 | 77.8 |
| Traffic signals | 8 | 9.9 |
| Stop sign | 7 | 8.6 |
| Yield sign | 0 | |
| No passing zone (marked) | 0 | |
| R.R. warning sign | 0 | |
| R.R. automatic signal | 1 | 3.7 |
| R.R. crossing gate | 0 | |
| Other | 2 | |
| Total no. of accidents (control stated) | 81 | |
| Control not stated | 0 | |
| GRAND TOTAL | 81 | |

# Iowa
# Accidents Involving

## Recreational Vehicles

**In 1981 there were:**

**6 recreational vehicle occupants killed**
**134 recreational vehicle occupants injured**
**430 accidents involving recreational vehicles**
**5 fatal accidents involving recreational vehicles**
**124 personal injury accidents involving recreational vehicles**
**301 property damage accidents involving recreational vehicles**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 10 | 2.5 |
| Improper passing | 9 | 2.3 |
| Left of center, not passing | 4 | 1.0 |
| Failure to yield | 31 | 7.8 |
| Wrong way, one-way road | 0 | -- |
| Speed too fast | 36 | 9.1 |
| Drag racing | 0 | -- |
| Improper turn | 12 | 3.0 |
| Improper lane change | 11 | 2.8 |
| Following too close | 9 | 2.3 |
| Improper or no signal | 1 | 0.3 |
| Disregarded R.R. signal | 0 | -- |
| Disregarded warning signal | 0 | -- |
| Reckless driving | 6 | 1.5 |
| Improper backing | 8 | 2.0 |
| Illegal or improper parking | 2 | 0.5 |
| Failure to have control | 73 | 18.4 |
| Lights not on | 1 | 0.3 |
| Inattentive/distracted | 16 | 4.0 |
| Confused/inexperienced | 8 | 2.0 |
| Vision obscured | 53 | 13.4 |
| Oversized vehicle | 0 | -- |
| Other | 22 | 5.6 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 328 | 85.4 |
| Drinking - impaired | 20 | 5.2 |
| Drinking - not impaired | 25 | 6.5 |
| Drugs | 1 | 0.3 |
| Physical defect | 0 | -- |
| Fatigued | 4 | 1.0 |
| Apparently asleep | 3 | 0.8 |
| Ill | 0 | -- |
| Under medication | 0 | -- |
| Infirmities of age | 1 | 0.3 |
| Other | 2 | 0.5 |
| Total no. of drivers (condition stated) | 384 | |
| Condition not stated | 12 | |
| GRAND TOTAL | 396 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 312 | 80.8 |
| Female | 74 | 19.2 |
| Total no. of drivers (sex known) | 386 | |
| Sex not stated | 10 | |
| GRAND TOTAL | 396 | |

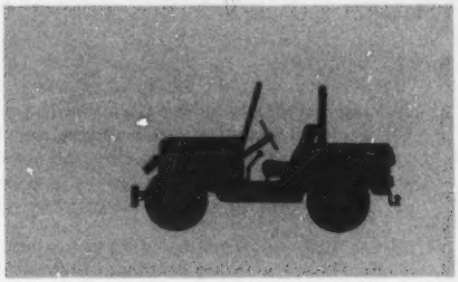
| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 9 | 2.4 |
| 16 | 14 | 3.7 |
| 17 | 17 | 4.4 |
| 18 | 21 | 5.5 |
| 19 | 14 | 3.7 |
| 20-24 | 66 | 17.2 |
| 25-34 | 129 | 33.7 |
| 35-44 | 52 | 13.6 |
| 45-54 | 37 | 9.7 |
| 55-64 | 20 | 5.2 |
| 65-74 | 3 | 0.8 |
| 75 & older | 1 | 0.3 |
| Total no. of drivers (age known) | 383 | |
| Age not stated | 13 | |
| GRAND TOTAL | 396 | |

Note: In 1981 recreational vehicle accidents, 79.3 percent of the recreational vehicle occupants who were killed or injured were not wearing seat belts, 3.6 percent were wearing seat belts, and seat belt use was unknown or unreported for 17.1 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 255 | 62.5 |
| Turning left | 34 | 8.3 |
| Turning right | 17 | 4.2 |
| Backing | 15 | 3.7 |
| Stopped in traffic | 20 | 4.9 |
| Parked | 35 | 8.6 |
| Making U-turn | 4 | 7.8 |
| Passing | 5 | |
| Changing lanes | 7 | |
| Merging | 2 | |
| Parking | 0 | |
| Slowing-stopping | 4 | |
| Unattended moving vehicle | 1 | |
| Other | 9 | |
| Total no. of vehicles (action stated) | 408 | |
| Action not stated | 24 | |
| GRAND TOTAL | 432 | |

Note: Total number of vehicles includes parked recreational vehicles involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 284 | 95.3 |
| Brakes | 2 | |
| Lights | 1 | |
| Steering | 1 | |
| Wipers | 1 | 4.7 |
| Tires | 4 | |
| Trailer hitch | 0 | |
| Other | 5 | |
| Total no. of vehicles (defect stated) | 298 | |
| No defect stated | 134 | |
| GRAND TOTAL | 432 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 7 | 1.6 |
| Daylight | 252 | 58.7 |
| Dusk | 15 | 3.5 |
| Darkness (road lighted) | 87 | 20.3 |
| Darkness (road unlighted) | 68 | 15.9 |
| Total no. of accidents (light stated) | 429 | |
| Light not stated | 1 | |
| GRAND TOTAL | 430 | |

Note: Figures indicate number of accidents involving recreational vehicles occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 261 | 60.7 |
| Cloudy | 101 | 23.5 |
| Fog | 11 | 2.6 |
| Mist | 15 | 3.5 |
| Rain | 29 | 6.7 |
| Sleet/hail | 3 | 0.7 |
| Snow | 16 | 3.7 |
| Strong wind | 11 | 2.6 |
| Other | 1 | 0.2 |

Note: Some accident reports listed more than one type of weather condition. However, the percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 5 | 6.6 |
| Underpass/bridge support | 0 | – |
| Building | 1 | 1.3 |
| Culvert | 1 | 1.3 |
| Curb | 5 | 6.6 |
| Ditch | 17 | 22.4 |
| Island/raised median | 0 | – |
| Embankment/retaining wall | 1 | 1.3 |
| Fence | 6 | 7.9 |
| Guardrail | 3 | 3.9 |
| Light pole | 4 | 5.3 |
| Sign post | 8 | 10.5 |
| Tree or shrubbery | 7 | 9.2 |
| Utility pole | 5 | 6.6 |
| Other pole or support | 3 | 3.9 |
| Mailbox | 1 | 1.3 |
| Impact attenuator | 0 | – |
| Other | 9 | 11.8 |

17.6% of recreational vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 324 | 75.5 |
| Traffic signals | 54 | 12.6 |
| Stop sign | 33 | 7.7 |
| Yield sign | 3 | |
| No passing zone (marked) | 3 | |
| R.R. warning sign | 0 | 4.2 |
| R.R. automatic signal | 1 | |
| R.R. crossing gate | 0 | |
| Other | 11 | |
| Total no. of accidents (control stated) | 429 | |
| Control not stated | 1 | |
| GRAND TOTAL | 430 | |

# Iowa
# Accidents Involving

## Trains

**In 1981 there were:**

**11 persons killed in train/motor vehicle accidents**
**81 persons injured in train/motor vehicle accidents**
**176 train/motor vehicle accidents involving 176 trains and 178 vehicles**
**9 fatal accidents involving trains/motor vehicles**
**59 personal injury accidents involving trains/motor vehicles**
**108 property damage accidents involving trains/motor vehicles**

**(All figures apply to train/motor vehicle accidents at public crossings. Private crossing accident information is not included. All 11 persons killed were motor vehicle drivers, riders or occupants.)**

## The Driver Of Motor Vehicle Involved

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 3 | 1.7 |
| Improper passing | 1 | 0.6 |
| Left of center, not passing | 0 | -- |
| Failure to yield | 16 | 9.1 |
| Wrong way, one-way road | 1 | 0.6 |
| Speed too fast | 11 | 6.3 |
| Drag racing | 0 | -- |
| Improper turn | 1 | 0.6 |
| Improper lane change | 0 | -- |
| Following too close | 0 | -- |
| Improper or no signal | 0 | -- |
| Disregarded R.R. signal | 42 | 24.0 |
| Disregarded warning signal | 4 | 2.3 |
| Reckless driving | 1 | 0.6 |
| Improper backing | 1 | 0.6 |
| Illegal or improper parking | 2 | 1.1 |
| Failure to have control | 21 | 12.0 |
| Lights not on | 0 | -- |
| Inattentive/distracted | 28 | 16.0 |
| Confused/inexperienced | 5 | 2.9 |
| Vision obscured | 35 | 20.0 |
| Oversized vehicle | 0 | -- |
| Other | 17 | 9.7 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 131 | 77.1 |
| Drinking - impaired | 10 | 5.9 |
| Drinking - not impaired | 20 | 11.8 |
| Drugs | 0 | -- |
| Physical defect | 2 | 1.2 |
| Fatigued | 3 | 1.8 |
| Apparently asleep | 0 | -- |
| Ill | 0 | -- |
| Under medication | 0 | -- |
| Infirmities of age | 4 | 2.4 |
| Other | 0 | -- |
| Total no. of drivers (condition stated) | 170 | |
| Condition not stated | 5 | |
| GRAND TOTAL | 175 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 132 | 76.3 |
| Female | 41 | 23.7 |
| Total no. of drivers (sex known) | 173 | |
| Sex not stated | 2 | |
| GRAND TOTAL | 175 | |

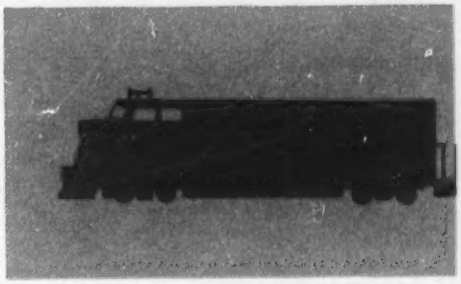
| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 1 | 0.6 |
| 16 | 4 | 2.4 |
| 17 | 4 | 2.4 |
| 18 | 12 | 7.1 |
| 19 | 7 | 4.1 |
| 20-24 | 34 | 20.0 |
| 25-34 | 39 | 22.9 |
| 35-44 | 28 | 16.5 |
| 45-54 | 21 | 12.4 |
| 55-64 | 8 | 4.7 |
| 65-74 | 7 | 4.1 |
| 75 & older | 5 | 2.9 |
| Total no. of drivers (age known) | 170 | |
| Age not stated | 5 | |
| GRAND TOTAL | 175 | |

Note: In 1981 train/motor vehicle accidents, 73.3 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts, 2.3 percent were wearing seat belts, and seat belt use was unknown or unreported for 24.4 percent of those killed or injured.

## The Motor Vehicle

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 149 | 85.6 |
| Turning left | 1 | 0.6 |
| Turning right | 2 | 1.1 |
| Backing | 2 | 1.1 |
| Stopped in traffic | 5 | 2.9 |
| Parked | 3 | 1.7 |
| Making U-turn | 1 | 6.9 |
| Passing | 2 | |
| Changing lanes | 0 | |
| Merging | 0 | |
| Parking | 0 | |
| Slowing-stopping | 2 | |
| Unattended moving vehicle | 0 | |
| Other | 7 | |
| Total no. of vehicles (action stated) | 174 | |
| Action not stated | 4 | |
| GRAND TOTAL | 178 | |

Note: Total number of vehicles includes parked motor vehicles involved in train/motor vehicle accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 120 | 93.0 |
| Brakes | 3 | |
| Lights | 0 | |
| Steering | 1 | |
| Wipers | 0 | 7.0 |
| Tires | 2 | |
| Trailer hitch | 0 | |
| Other | 3 | |
| Total no. of vehicles (defect stated) | 129 | |
| No defect stated | 49 | |
| GRAND TOTAL | 178 | |

| Type of Motor Vehicle Involved in Collision | Number of Vehicles | Percent |
|---|---|---|
| Automobile | 105 | 59.0 |
| Automobile/pickup with trailer or camper | 0 | -- |
| Bus | 0 | -- |
| School bus | 1 | 0.6 |
| Moped | 0 | -- |
| Motorcycle | 2 | 1.1 |
| Farm vehicle | 5 | 2.8 |
| Motor home | 1 | 0.6 |
| Recreational vehicle | 1 | 0.6 |
| Panel/van/pickup | 45 | 25.3 |
| Straight truck | 6 | 3.4 |
| Tow/maintenance/ construction vehicles | 0 | -- |
| Truck tractor | 0 | -- |
| Truck tractor with trailer | 12 | 6.7 |
| Other | 0 | -- |
| Total no. of vehicles (vehicle type stated) | 178 | |
| Type not stated | 0 | |
| GRAND TOTAL | 178 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 3 | 1.7 |
| Daylight | 95 | 54.3 |
| Dusk | 4 | 2.3 |
| Darkness (road lighted) | 37 | 21.1 |
| Darkness (road unlighted) | 36 | 20.6 |
| Total no. of accidents (light stated) | 175 | |
| Light not stated | 1 | |
| GRAND TOTAL | 176 | |

Note: Figures indicate number of accidents involving train/motor vehicle collisions occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 124 | 70.5 |
| Cloudy | 35 | 19.9 |
| Fog | 6 | 3.4 |
| Mist | 4 | 2.3 |
| Rain | 5 | 2.8 |
| Sleet/hail | 0 | -- |
| Snow | 8 | 4.5 |
| Strong wind | 2 | 1.1 |
| Other | 0 | -- |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 42 | 24.3 |
| Traffic signals | 3 | 1.7 |
| Stop sign | 4 | 2.3 |
| Yield sign | 0 | -- |
| No passing zone (marked) | 0 | -- |
| R.R. warning sign | 63 | 36.4 |
| R.R. automatic signal | 37 | 21.4 |
| R.R. crossing gate | 11 | 6.4 |
| Other | 13 | 7.5 |
| Total no. of accidents (control stated) | 173 | |
| Control not stated | 3 | |
| GRAND TOTAL | 176 | |

# Iowa
# Accidents Involving

## Panels/Vans/Pickups

**In 1981 there were:**
**85 panel/van/pickup occupants killed**
**3,307 panel/van/pickup occupants injured**
**15,683 accidents involving panels/vans/pickups**
**128 fatal accidents involving panels/vans/pickups**
**4,009 personal injury accidents involving panels/vans/pickups**
**11,546 property damage accidents involving panels/vans/pickups**

### The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 452 | 2.9 |
| Improper passing | 197 | 1.3 |
| Left of center, not passing | 291 | 1.9 |
| Failure to yield | 1,678 | 10.7 |
| Wrong way, one-way road | 14 | 0.1 |
| Speed too fast | 793 | 5.0 |
| Drag racing | 4 | -- |
| Improper turn | 261 | 1.7 |
| Improper lane change | 238 | 1.5 |
| Following too close | 357 | 2.3 |
| Improper or no signal | 111 | 0.7 |
| Disregarded R.R. signal | 15 | 0.1 |
| Disregarded warning signal | 14 | 0.1 |
| Reckless driving | 133 | 0.8 |
| Improper backing | 429 | 2.7 |
| Illegal or improper parking | 43 | 0.3 |
| Failure to have control | 2,217 | 14.1 |
| Lights not on | 23 | 0.1 |
| Inattentive/distracted | 923 | 5.9 |
| Confused/inexperienced | 297 | 1.9 |
| Vision obscured | 1,953 | 12.4 |
| Oversized vehicle | 10 | 0.1 |
| Other | 863 | 5.5 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 13,575 | 88.7 |
| Drinking - impaired | 723 | 4.7 |
| Drinking - not impaired | 616 | 4.0 |
| Drugs | 8 | 0.1 |
| Physical defect | 25 | 0.2 |
| Fatigued | 95 | 0.6 |
| Apparently asleep | 145 | 1.0 |
| Ill | 11 | 0.1 |
| Under medication | 9 | 0.1 |
| Infirmities of age | 38 | 0.3 |
| Other | 60 | 0.4 |
| Total no. of drivers (condition stated) | 15,305 | |
| Condition not stated | 409 | |
| GRAND TOTAL | 15,714 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 13,377 | 87.4 |
| Female | 1,924 | 12.6 |
| Total no. of drivers (sex known) | 15,301 | |
| Sex not stated | 413 | |
| GRAND TOTAL | 15,714 | |

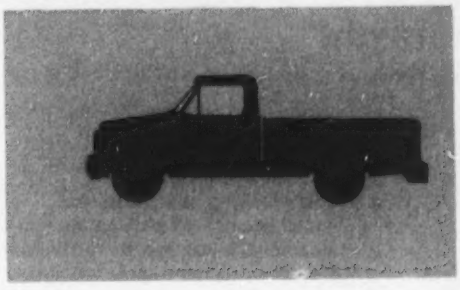
| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 81 | 0.5 |
| 16 | 602 | 4.0 |
| 17 | 672 | 4.5 |
| 18 | 702 | 4.7 |
| 19 | 710 | 4.7 |
| 20-24 | 2,944 | 19.5 |
| 25-34 | 4,035 | 26.8 |
| 35-44 | 2,038 | 13.5 |
| 45-54 | 1,438 | 9.5 |
| 55-64 | 1,185 | 7.9 |
| 65-74 | 531 | 3.5 |
| 75 & older | 147 | 1.0 |
| Total no. of drivers (age known) | 15,085 | |
| Age not stated | 629 | |
| GRAND TOTAL | 15,714 | |

Note: In 1981 panel/van/pickup accidents, 80.3 percent of the panel/van/pickup occupants who were killed or injured were not wearing seat belts, 2.0 percent were wearing seat belts, and seat belt use was unknown or unreported for 17.7 percent of those killed or injured.

### The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 10,043 | 61.5 |
| Turning left | 1,653 | 10.1 |
| Turning right | 710 | 4.4 |
| Backing | 699 | 4.3 |
| Stopped in traffic | 691 | 4.2 |
| Parked | 1,246 | 7.6 |
| Making U-turn | 49 | 7.9 |
| Passing | 185 | |
| Changing lanes | 221 | |
| Merging | 90 | |
| Parking | 49 | |
| Slowing-stopping | 341 | |
| Unattended moving vehicle | 53 | |
| Other | 306 | |
| Total no. of vehicles (action stated) | 16,336 | |
| Action not stated | 677 | |
| GRAND TOTAL | 17,013 | |

Note: Total number of vehicles includes parked panels/vans/pickups involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 10,947 | 96.8 |
| Brakes | 77 | |
| Lights | 40 | |
| Steering | 23 | |
| Wipers | 4 | 3.2 |
| Tires | 78 | |
| Trailer hitch | 8 | |
| Other | 134 | |
| Total no. of vehicles (defect stated) | 11,311 | |
| No defect stated | 5,702 | |
| GRAND TOTAL | 17,013 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 175 | 1.1 |
| Daylight | 9,813 | 62.8 |
| Dusk | 529 | 3.4 |
| Darkness (road lighted) | 2,826 | 18.1 |
| Darkness (road unlighted) | 2,295 | 14.7 |
| Total no. of accidents (light stated) | 15,638 | |
| Light not stated | 45 | |
| GRAND TOTAL | 15,683 | |

Note: Figures indicate number of accidents involving panels/vans/pickups occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 9,851 | 63.0 |
| Cloudy | 3,777 | 24.2 |
| Fog | 188 | 1.2 |
| Mist | 416 | 2.7 |
| Rain | 909 | 5.8 |
| Sleet/hail | 64 | 0.4 |
| Snow | 760 | 4.9 |
| Strong wind | 275 | 1.8 |
| Other | 70 | 0.4 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 154 | 5.8 |
| Underpass/bridge support | 7 | 0.3 |
| Building | 83 | 3.1 |
| Culvert | 70 | 2.6 |
| Curb | 60 | 2.3 |
| Ditch | 795 | 30.0 |
| Island/raised median | 14 | 0.5 |
| Embankment/retaining wall | 86 | 3.2 |
| Fence | 206 | 7.8 |
| Guardrail | 96 | 3.6 |
| Light pole | 193 | 7.3 |
| Sign post | 149 | 5.6 |
| Tree or shrubbery | 175 | 6.6 |
| Utility pole | 244 | 9.2 |
| Other pole or support | 53 | 2.0 |
| Mailbox | 54 | 2.0 |
| Impact attenuator | 17 | 0.6 |
| Other | 198 | 7.5 |

15.6% of panels/vans/pickups involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 11,5[illegible] | 74.1 |
| Traffic signals | 1,764 | 11.4 |
| Stop sign | 1,578 | 10.2 |
| Yield sign | 125 | |
| No passing zone (marked) | 117 | |
| R.R. warning sign | 34 | 4.4 |
| R.R. automatic signal | 24 | |
| R.R. crossing gate | 10 | |
| Other | 379 | |
| Total no. of accidents (control stated) | 15,536 | |
| Control not stated | 147 | |
| GRAND TOTAL | 15,683 | |

# Iowa
# Accidents Involving

## Straight Trucks

**In 1981 there were:**

**4 straight truck occupants killed**
**225 straight truck occupants injured**
**1,742 accidents involving straight trucks**
**27 fatal accidents involving straight trucks**
**452 personal injury accidents involving straight trucks**
**1,263 property damage accidents involving straight trucks**
**30 persons were killed in straight truck accidents. Of this number, 26 (86.7 percent) were not straight truck occupants.**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 41 | 2.4 |
| Improper passing | 29 | 1.7 |
| Left of center, not passing | 24 | 1.4 |
| Failure to yield | 150 | 8.8 |
| Wrong way, one-way road | 0 | -- |
| Speed too fast | 56 | 3.3 |
| Drag racing | 0 | -- |
| Improper turn | 38 | 2.2 |
| Improper lane change | 39 | 2.3 |
| Following too close | 44 | 2.6 |
| Improper or no signal | 21 | 1.2 |
| Disregarded R.R. signal | 0 | -- |
| Disregarded warning signal | 3 | 0.2 |
| Reckless driving | 4 | 0.2 |
| Improper backing | 88 | 5.2 |
| Illegal or improper parking | 2 | 0.1 |
| Failure to have control | 173 | 10.2 |
| Lights not on | 3 | 0.2 |
| Inattentive/distracted | 80 | 4.7 |
| Confused/inexperienced | 36 | 2.1 |
| Vision obscured | 222 | 13.0 |
| Oversized vehicle | 14 | 0.8 |
| Other | 128 | 7.5 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 1,637 | 97.5 |
| Drinking - impaired | 13 | 0.8 |
| Drinking - not impaired | 6 | 0.4 |
| Drugs | 0 | -- |
| Physical defect | 0 | -- |
| Fatigued | 6 | 0.4 |
| Apparently asleep | 10 | 0.6 |
| Ill | 0 | -- |
| Under medication | 1 | 0.1 |
| Infirmities of age | 2 | 0.1 |
| Other | 4 | 0.2 |
| Total no. of drivers (condition stated) | 1,679 | |
| Condition not stated | 25 | |
| GRAND TOTAL | 1,704 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 1,630 | 97.9 |
| Female | 35 | 2.1 |
| Total no. of drivers (sex known) | 1,665 | |
| Sex not stated | 39 | |
| GRAND TOTAL | 1,704 | |

| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 1 | 0.1 |
| 16 | 9 | 0.6 |
| 17 | 12 | 0.7 |
| 18 | 32 | 2.0 |
| 19 | 50 | 3.1 |
| 20-24 | 382 | 23.3 |
| 25-34 | 485 | 29.5 |
| 35-44 | 237 | 14.4 |
| 45-54 | 202 | 12.3 |
| 55-64 | 167 | 10.2 |
| 65-74 | 53 | 3.2 |
| 75 & older | 12 | 0.7 |
| Total no. of drivers (age known) | 1,642 | |
| Age not stated | 62 | |
| GRAND TOTAL | 1,704 | |

Note: In 1981 straight truck accidents, 83.4 percent of the straight truck occupants who were killed or injured were not wearing seat belts, 0.9 percent were wearing seat belts, and seat belt use was unknown or unreported for 15.7 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 1,000 | 58.0 |
| Turning left | 184 | 10.7 |
| Turning right | 109 | 6.3 |
| Backing | 139 | 8.1 |
| Stopped in traffic | 53 | 3.1 |
| Parked | 66 | 3.8 |
| Making U-turn | 3 | |
| Passing | 39 | |
| Changing lanes | 32 | |
| Merging | 12 | 10.1 |
| Parking | 5 | |
| Slowing-stopping | 42 | |
| Unattended moving vehicle | 13 | |
| Other | 28 | |
| Total no. of vehicles (action stated) | 1,725 | |
| Action not stated | 58 | |
| GRAND TOTAL | 1,783 | |

Note: Total number of vehicles includes parked straight trucks involved in accidents.

| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 1,161 | 89.0 |
| Brakes | 50 | |
| Lights | 20 | |
| Steering | 7 | |
| Wipers | 1 | 11.0 |
| Tires | 20 | |
| Trailer hitch | 7 | |
| Other | 39 | |
| Total no. of vehicles (defect stated) | 1,305 | |
| No defect stated | 478 | |
| GRAND TOTAL | 1,783 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 14 | 0.8 |
| Daylight | 1,495 | 85.9 |
| Dusk | 37 | 2.1 |
| Darkness (road lighted) | 97 | 5.6 |
| Darkness (road unlighted) | 97 | 5.6 |
| Total no. of accidents (light stated) | 1,740 | |
| Light not stated | 2 | |
| GRAND TOTAL | 1,742 | |

Note: Figures indicate number of accidents involving straight trucks occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 1,117 | 64.1 |
| Cloudy | 426 | 24.5 |
| Fog | 26 | 1.5 |
| Mist | 39 | 2.2 |
| Rain | 93 | 5.3 |
| Sleet/hail | 4 | 0.2 |
| Snow | 82 | 4.7 |
| Strong wind | 30 | 1.7 |
| Other | 7 | 0.4 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 29 | 11.9 |
| Underpass/bridge support | 6 | 2.5 |
| Building | 7 | 2.9 |
| Culvert | 2 | 0.8 |
| Curb | 2 | 0.8 |
| Ditch | 96 | 39.5 |
| Island/raised median | 0 | – |
| Embankment/retaining wall | 3 | 1.2 |
| Fence | 16 | 6.6 |
| Guardrail | 3 | 1.2 |
| Light pole | 15 | 6.2 |
| Sign post | 11 | 4.5 |
| Tree or shrubbery | 3 | 1.2 |
| Utility pole | 21 | 8.6 |
| Other pole or support | 4 | 1.6 |
| Mailbox | 4 | 1.6 |
| Impact attenuator | 2 | 0.8 |
| Other | 19 | 7.8 |

13.6% of straight trucks involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 1,232 | 71.4 |
| Traffic signals | 200 | 11.6 |
| Stop sign | 183 | 10.6 |
| Yield sign | 9 | |
| No passing zone (marked) | 19 | |
| R.R. warning sign | 3 | |
| R.R. automatic signal | 6 | 6.4 |
| R.R. crossing gate | 0 | |
| Other | 74 | |
| Total no. of accidents (control stated) | 1,726 | |
| Control not stated | 16 | |
| GRAND TOTAL | 1,742 | |

# Iowa
# Accidents Involving

## Tow/Maintenance/ Construction Vehicles

**In 1981 there were:**

**1 tow/maintenance/construction vehicle occupant killed**
**36 tow/maintenance/construction vehicle occupants injured**
**420 accidents involving tow/maintenance/construction vehicles**
- **3 fatal accidents involving tow/maintenance/ construction vehicles**
- **95 personal injury accidents involving tow/ maintenance/ construction vehicles**
- **322 property damage accidents involving tow/ maintenance/construction vehicles**

**3 persons were killed in tow/maintenance/construction vehicle accidents. Of this number, 2 (66.7 percent) were not tow/ maintenance/construction vehicle occupants.**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 7 | 1.8 |
| Improper passing | 3 | 0.8 |
| Left of center, not passing | 9 | 2.4 |
| Failure to yield | 29 | 7.6 |
| Wrong way, one-way road | 1 | 0.3 |
| Speed too fast | 12 | 3.2 |
| Drag racing | 0 | – |
| Improper turn | 12 | 3.2 |
| Improper lane change | 9 | 2.4 |
| Following too close | 5 | 1.3 |
| Improper or no signal | 7 | 1.8 |
| Disregarded R.R. signal | 0 | – |
| Disregarded warning signal | 0 | – |
| Reckless driving | 1 | 0.3 |
| Improper backing | 17 | 4.5 |
| Illegal or improper parking | 0 | – |
| Failure to have control | 31 | 8.2 |
| Lights not on | 1 | 0.3 |
| Inattentive/distracted | 9 | 2.4 |
| Confused/inexperienced | 3 | 0.8 |
| Vision obscured | 66 | 17.4 |
| Oversized vehicle | 7 | 1.8 |
| Other | 35 | 9.2 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 361 | 96.5 |
| Drinking - impaired | 3 | 0.8 |
| Drinking - not impaired | 4 | 1.1 |
| Drugs | 0 | – |
| Physical defect | 0 | – |
| Fatigued | 1 | 0.3 |
| Apparently asleep | 0 | – |
| Ill | 0 | – |
| Under medication | 0 | – |
| Infirmities of age | 0 | – |
| Other | 5 | 1.3 |
| Total no. of drivers (condition stated) | 374 | |
| Condition not stated | 6 | |
| GRAND TOTAL | 380 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 353 | 97.2 |
| Female | 10 | 2.8 |
| Total no. of drivers (sex known) | 363 | |
| Sex not stated | 17 | |
| GRAND TOTAL | 380 | |

| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 1 | 0.3 |
| 16 | 1 | 0.3 |
| 17 | 1 | 0.3 |
| 18 | 5 | 1.4 |
| 19 | 13 | 3.7 |
| 20-24 | 55 | 15.6 |
| 25-34 | 111 | 31.4 |
| 35-44 | 63 | 17.9 |
| 45-54 | 58 | 16.4 |
| 55-64 | 40 | 11.3 |
| 65-74 | 5 | 1.4 |
| 75 & older | 0 | – |
| Total no. of drivers (age known) | 353 | |
| Age not stated | 27 | |
| GRAND TOTAL | 380 | |

Note: In 1981 tow/maintenance/construction vehicle accidents, 78.4 percent of the tow/maintenance/construction vehicle occupants who were killed or injured were not wearing seat belts, 5.4 percent were wearing seat belts, and seat belt use was unknown or unreported for 16.2 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 204 | 51.4 |
| Turning left | 33 | 8.3 |
| Turning right | 27 | 6.8 |
| Backing | 38 | 9.6 |
| Stopped in traffic | 12 | 3.0 |
| Parked | 42 | 10.6 |
| Making U-turn | 4 | |
| Passing | 1 | |
| Changing lanes | 7 | |
| Merging | 1 | 10.3 |
| Parking | 0 | |
| Slowing-stopping | 5 | |
| Unattended moving vehicle | 2 | |
| Other | 21 | |
| Total no. of vehicles (action stated) | 397 | |
| Action not stated | 27 | |
| GRAND TOTAL | 424 | |

Note: Total number of vehicles includes parked tow/maintenance/construction vehicles involved in accidents.

# Tow/Maintenance/ Construction Vehicles

| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 280 | 93.0 |
| Brakes | 8 | 7.0 |
| Lights | 1 | |
| Steering | 0 | |
| Wipers | 0 | |
| Tires | 4 | |
| Trailer hitch | 1 | |
| Other | 7 | |
| Total no. of vehicles (defect stated) | 301 | |
| No defect stated | 123 | |
| GRAND TOTAL | 424 | |

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 3 | 6.7 |
| Underpass/bridge support | 2 | 4.4 |
| Building | 2 | 4.4 |
| Culvert | 2 | 4.4 |
| Curb | 1 | 2.2 |
| Ditch | 6 | 13.3 |
| Island/raised median | 0 | – |
| Embankment/retaining wall | 3 | 6.7 |
| Fence | 2 | 4.4 |
| Guardrail | 2 | 4.4 |
| Light pole | 7 | 15.6 |
| Sign post | 2 | 4.4 |
| Tree or shrubbery | 3 | 6.7 |
| Utility pole | 3 | 6.7 |
| Other pole or support | 2 | 4.4 |
| Mailbox | 1 | 2.2 |
| Impact attenuator | 0 | – |
| Other | 4 | 8.9 |

10.6% of tow/maintenance/construction vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 5 | 1.2 |
| Daylight | 343 | 81.7 |
| Dusk | 10 | 2.4 |
| Darkness (road lighted) | 37 | 8.8 |
| Darkness (road unlighted) | 25 | 6.0 |
| Total no. of accidents (light stated) | 420 | |
| Light not stated | 0 | |
| GRAND TOTAL | 420 | |

Note: Figures indicate number of accidents involving tow/maintenance/construction vehicles occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 250 | 59.5 |
| Cloudy | 102 | 24.3 |
| Fog | 10 | 2.4 |
| Mist | 11 | 2.6 |
| Rain | 20 | 4.8 |
| Sleet/hail | 1 | 0.2 |
| Snow | 34 | 8.1 |
| Strong wind | 14 | 3.3 |
| Other | 4 | 1.0 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 317 | 76.0 |
| Traffic signals | 41 | 9.8 |
| Stop sign | 31 | 7.4 |
| Yield sign | 2 | 6.7 |
| No passing zone (marked) | 1 | |
| R.R. warning sign | 0 | |
| R.R. automatic signal | 1 | |
| R.R. crossing gate | 0 | |
| Other | 24 | |
| Total no. of accidents (control stated) | 417 | |
| Control not stated | 3 | |
| GRAND TOTAL | 420 | |

# Iowa
# Accidents Involving

# Truck Tractors

**In 1981 there were:**

**1 truck tractor occupant killed**
**29 truck tractor occupants injured**
**224 accidents involving truck tractors**
**5 fatal accidents involving truck tractors**
**60 personal injury accidents involving truck tractors**
**159 property damage accidents involving truck tractors**
**8 persons were killed in truck tractor accidents. Of this number, 7 (87.5 percent) were not truck tractor occupants.**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 3 | 1.4 |
| Improper passing | 5 | 2.3 |
| Left of center, not passing | 1 | 0.5 |
| Failure to yield | 13 | 5.9 |
| Wrong way, one-way road | 0 | - |
| Speed too fast | 11 | 5.0 |
| Drag racing | 0 | - |
| Improper turn | 10 | 4.5 |
| Improper lane change | 9 | 4.1 |
| Following too close | 10 | 4.5 |
| Improper or no signal | 0 | - |
| Disregarded R.R. signal | 0 | - |
| Disregarded warning signal | 0 | - |
| Reckless driving | 1 | 0.5 |
| Improper backing | 3 | 1.4 |
| Illegal or improper parking | 2 | 0.9 |
| Failure to have control | 30 | 13.6 |
| Lights not on | 0 | - |
| Inattentive/distracted | 7 | 3.2 |
| Confused/inexperienced | 4 | 1.8 |
| Vision obscured | 15 | 6.8 |
| Oversized vehicle | 2 | 0.9 |
| Other | 17 | 7.7 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 205 | 94.0 |
| Drinking - impaired | 3 | 1.4 |
| Drinking - not impaired | 5 | 2.3 |
| Drugs | 0 | - |
| Physical defect | 1 | 0.5 |
| Fatigued | 3 | 1.4 |
| Apparently asleep | 1 | 0.5 |
| Ill | 0 | - |
| Under medication | 0 | - |
| Infirmities of age | 0 | - |
| Other | 0 | - |
| Total no. of drivers (condition stated) | 218 | |
| Condition not stated | 2 | |
| GRAND TOTAL | 220 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 210 | 98.1 |
| Female | 4 | 1.9 |
| Total no. of drivers (sex known) | 214 | |
| Sex not stated | 6 | |
| GRAND TOTAL | 220 | |

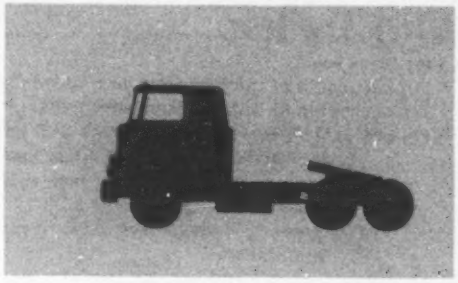
| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 0 | - |
| 16 | 0 | - |
| 17 | 1 | 0.5 |
| 18 | 0 | - |
| 19 | 2 | 0.9 |
| 20-24 | 44 | 20.9 |
| 25-34 | 70 | 33.2 |
| 35-44 | 39 | 18.2 |
| 45-54 | 30 | 14.2 |
| 55-64 | 23 | 10.9 |
| 65-74 | 2 | 0.9 |
| 75 & older | 0 | - |
| Total no. of drivers (age known) | 211 | |
| Age not stated | 9 | |
| GRAND TOTAL | 220 | |

Note: In 1981 truck tractor accidents, 83.3 percent of the truck tractor occupants who were killed or injured were not wearing seat belts, 3.3 percent were wearing seat belts, and seat belt use was unknown or unreported for 13.3 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 133 | 60.5 |
| Turning left | 20 | 9.1 |
| Turning right | 24 | 10.9 |
| Backing | 4 | 1.8 |
| Stopped in traffic | 6 | 2.7 |
| Parked | 6 | 2.7 |
| Making U-turn | 1 | 12.3 |
| Passing | 11 | |
| Changing lanes | 5 | |
| Merging | 1 | |
| Parking | 1 | |
| Slowing-stopping | 4 | |
| Unattended moving vehicle | 1 | |
| Other | 3 | |
| Total no. of vehicles (action stated) | 220 | |
| Action not stated | 7 | |
| GRAND TOTAL | 227 | |

Note: Total number of vehicles includes parked truck tractors involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 144 | 92.3 |
| Brakes | 4 | |
| Lights | 0 | |
| Steering | 1 | |
| Wipers | 0 | 7.7 |
| Tires | 2 | |
| Trailer hitch | 2 | |
| Other | 3 | |
| Total no. of vehicles (defect stated) | 156 | |
| No defect stated | 71 | |
| GRAND TOTAL | 227 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 3 | 1.3 |
| Daylight | 165 | 73.7 |
| Dusk | 4 | 1.8 |
| Darkness (road lighted) | 26 | 11.6 |
| Darkness (road unlighted) | 26 | 11.6 |
| Total no. of accidents (light stated) | 224 | |
| Light not stated | 0 | |
| GRAND TOTAL | 224 | |

Note: Figures indicate number of accidents involving truck tractors occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 134 | 59.8 |
| Cloudy | 51 | 22.8 |
| Fog | 5 | 2.2 |
| Mist | 13 | 5.8 |
| Rain | 12 | 5.4 |
| Sleet/hail | 2 | 0.9 |
| Snow | 13 | 5.8 |
| Strong wind | 5 | 2.2 |
| Other | 2 | 0.9 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 2 | 5.1 |
| Underpass/bridge support | 0 | – |
| Building | 1 | 2.6 |
| Culvert | 1 | 2.6 |
| Curb | 0 | – |
| Ditch | 14 | 35.9 |
| Island/raised median | 0 | – |
| Embankment/retaining wall | 0 | – |
| Fence | 1 | 2.6 |
| Guardrail | 2 | 5.1 |
| Light pole | 5 | 12.8 |
| Sign post | 2 | 5.1 |
| Tree or shrubbery | 0 | – |
| Utility pole | 2 | 5.1 |
| Other pole or support | 4 | 10.3 |
| Mailbox | 1 | 2.6 |
| Impact attenuator | 0 | – |
| Other | 4 | 10.3 |

17.2% of truck tractors involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 163 | 73.1 |
| Traffic signals | 39 | 17.5 |
| Stop sign | 10 | 4.5 |
| Yield sign | 2 | |
| No passing zone (marked) | 1 | |
| R.R. warning sign | 0 | |
| R.R. automatic signal | 1 | 4.9 |
| R.R. crossing gate | 0 | |
| Other | 7 | |
| Total no. of accidents (control stated) | 223 | |
| Control not stated | 1 | |
| GRAND TOTAL | 224 | |

# Iowa
# Accidents Involving

# Truck Tractors With Trailers

**In 1981 there were:**

**14 occupants of truck tractors with trailers killed**
**331 occupants of truck tractors with trailers injured**
**2,474 accidents involving truck tractors with trailers**
**87 fatal accidents involving truck tractors with trailers**
**857 personal injury accidents involving truck tractors with trailers**
**1,750 property damage accidents involving truck tractors with trailers**
**87 persons were killed in truck tractor with trailer accidents. Of this number, 73 (83.9 percent) were not occupants of truck tractors with trailers.**

## The Driver

| Driver Action/ Contributing Circumstances | Number of Drivers | Percent |
|---|---|---|
| Ran traffic control | 42 | 1.7 |
| Improper passing | 85 | 3.4 |
| Left of center, not passing | 32 | 1.3 |
| Failure to yield | 102 | 4.1 |
| Wrong way, one-way road | 4 | 0.2 |
| Speed too fast | 140 | 5.6 |
| Drag racing | 0 | -- |
| Improper turn | 82 | 3.3 |
| Improper lane change | 85 | 3.4 |
| Following too close | 87 | 3.5 |
| Improper or no signal | 8 | 0.3 |
| Disregarded R.R. signal | 6 | 0.2 |
| Disregarded warning signal | 9 | 0.4 |
| Reckless driving | 2 | 0.1 |
| Improper backing | 66 | 2.6 |
| Illegal or improper parking | 10 | 0.4 |
| Failure to have control | 294 | 11.8 |
| Lights not on | 0 | -- |
| Inattentive/distracted | 87 | 3.5 |
| Confused/inexperienced | 29 | 1.2 |
| Vision obscured | 349 | 13.9 |
| Oversized vehicle | 38 | 1.5 |
| Other | 163 | 6.5 |

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

| Driver Condition | Number of Drivers | Percent |
|---|---|---|
| Apparently normal | 2,355 | 95.5 |
| Drinking - impaired | 15 | 0.6 |
| Drinking - not impaired | 11 | 0.5 |
| Drugs | 1 | - |
| Physical defect | 5 | 0.2 |
| Fatigued | 30 | 1.2 |
| Apparently asleep | 43 | 1.7 |
| Ill | 0 | -- |
| Under medication | 1 | -- |
| Infirmities of age | 0 | -- |
| Other | 5 | 0.2 |
| Total no. of drivers (condition stated) | 2,466 | |
| Condition not stated | 36 | |
| GRAND TOTAL | 2,502 | |

| Driver Sex | Number of Drivers | Percent |
|---|---|---|
| Male | 2,398 | 98.4 |
| Female | 39 | 1.6 |
| Total no. of drivers (sex known) | 2,437 | |
| Sex not stated | 65 | |
| GRAND TOTAL | 2,502 | |

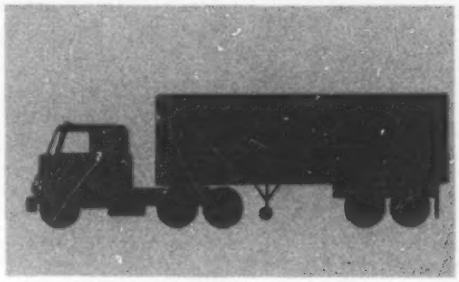
| Driver Age | Number of Drivers | Percent |
|---|---|---|
| 15 & younger | 0 | -- |
| 16 | 1 | -- |
| 17 | 1 | -- |
| 18 | 12 | 0.5 |
| 19 | 24 | 1.0 |
| 20-24 | 391 | 16.3 |
| 25-34 | 860 | 35.8 |
| 35-44 | 527 | 21.9 |
| 45-54 | 397 | 16.5 |
| 55-64 | 173 | 7.2 |
| 65-74 | 17 | 0.7 |
| 75 & older | 1 | -- |
| Total no. of drivers (age known) | 2,404 | |
| Age not stated | 98 | |
| GRAND TOTAL | 2,502 | |

Note: In 1981 truck tractor with trailer accidents, 78.3 percent of the truck tractor with trailer occupants who were killed or injured were not wearing seat belts, 6.1 percent were wearing seat belts, and seat belt use was unknown or unreported for 15.7 percent of those killed or injured.

## The Machine

| Vehicle Action | Number of Vehicles | Percent |
|---|---|---|
| Going straight | 1,527 | 61.7 |
| Turning left | 196 | 7.9 |
| Turning right | 274 | 11.1 |
| Backing | 84 | 3.4 |
| Stopped in traffic | 50 | 2.0 |
| Parked | 51 | 2.1 |
| Making U-turn | 3 | |
| Passing | 98 | |
| Changing lanes | 68 | 11.9 |
| Merging | 12 | |
| Parking | 5 | |
| Slowing-stopping | 58 | |
| Unattended moving vehicle | 5 | |
| Other | 46 | |
| Total no. of vehicles (action stated) | 2,477 | |
| Action not stated | 81 | |
| GRAND TOTAL | 2,558 | |

Note: Total number of vehicles includes parked truck tractors with trailers involved in accidents.



| Vehicle Defect | Number of Vehicles | Percent |
|---|---|---|
| None | 1,815 | 93.8 |
| Brakes | 48 | |
| Lights | 7 | |
| Steering | 7 | |
| Wipers | 1 | 6.2 |
| Tires | 24 | |
| Trailer hitch | 4 | |
| Other | 30 | |
| Total no. of vehicles (defect stated) | 1,936 | |
| No defect stated | 622 | |
| GRAND TOTAL | 2,558 | |

## The Environment

| Light | Number of Accidents | Percent |
|---|---|---|
| Dawn | 51 | 2.1 |
| Daylight | 1,677 | 67.8 |
| Dusk | 59 | 2.4 |
| Darkness (road lighted) | 239 | 9.7 |
| Darkness (road unlighted) | 446 | 18.0 |
| Total no. of accidents (light stated) | 2,472 | |
| Light not stated | 2 | |
| GRAND TOTAL | 2,474 | |

Note: Figures indicate number of accidents involving truck tractors with trailers occurring under the conditions indicated.

| Weather | Number of Accidents | Percent |
|---|---|---|
| Clear | 1,429 | 57.8 |
| Cloudy | 614 | 24.8 |
| Fog | 47 | 1.9 |
| Mist | 68 | 2.7 |
| Rain | 194 | 7.8 |
| Sleet/hail | 25 | 1.0 |
| Snow | 172 | 7.0 |
| Strong wind | 104 | 4.2 |
| Other | 14 | 0.6 |

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

| Fixed Object Struck | Vehicles Striking Object | Percent |
|---|---|---|
| Bridge/overpass | 54 | 10.4 |
| Underpass/bridge support | 12 | 2.3 |
| Building | 7 | 1.4 |
| Culvert | 8 | 1.5 |
| Curb | 8 | 1.5 |
| Ditch | 149 | 28.8 |
| Island/raised median | 9 | 1.7 |
| Embankment/retaining wall | 10 | 1.9 |
| Fence | 29 | 5.6 |
| Guardrail | 37 | 7.1 |
| Light pole | 41 | 7.9 |
| Sign post | 31 | 6.0 |
| Tree or shrubbery | 6 | 1.2 |
| Utility pole | 26 | 5.0 |
| Other pole or support | 30 | 5.8 |
| Mailbox | 3 | 0.6 |
| Impact attenuator | 3 | 0.6 |
| Other | 55 | 10.6 |

20.3% of truck tractors with trailers involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

| Traffic Controls | Number of Accidents | Percent |
|---|---|---|
| No controls | 1,740 | 70.6 |
| Traffic signals | 363 | 14.7 |
| Stop sign | 152 | 6.2 |
| Yield sign | 11 | |
| No passing zone (marked) | 50 | |
| R.R. warning sign | 8 | |
| R.R. automatic signal | 8 | 8.6 |
| R.R. crossing gate | 6 | |
| Other | 128 | |
| Total no. of accidents (control stated) | 2,466 | |
| Control not stated | 8 | |
| GRAND TOTAL | 2,474 | |